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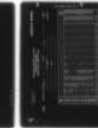
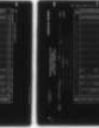
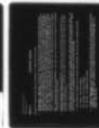
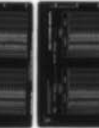
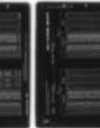
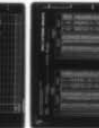
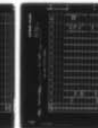
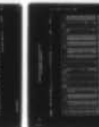
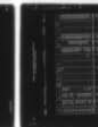
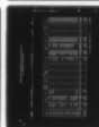
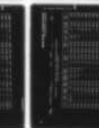
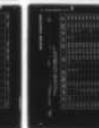
NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) OCEANA, --ETC(U)  
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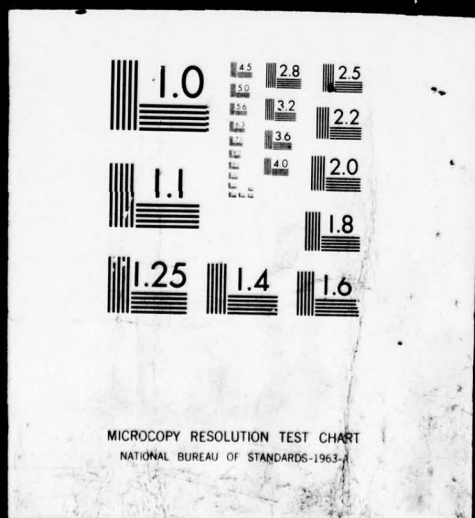
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DIRECTOR

NAVAL OCEANOGRAPHY AND METEOROLOGY

S M O S

(Summary of Meteorological Observations, Surface)

Prepared by  
Naval Weather Service Detachment  
Federal Building  
Asheville, N. C. 28801

Job Number: 72006

Period: 1945-77

Station: OCEANA, VA

Date: JULY, 1978



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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Oceana, VA		5. TYPE OF REPORT & PERIOD COVERED Reference report 1945-77
		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) N/A		8. CONTRACT OR GRANT NUMBER(s)
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Weather Service Detachment Federal Building Asheville, N. C. 28001		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS Director, Naval Oceanography and Meteorology National Space Technology Laboratories NSTL Station, MS 39529		12. REPORT DATE July 1978
		13. NUMBER OF PAGES 358
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, Naval shore facility, coastal region, snow depth, cloud cover, Oceana, VA.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/ Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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STATION NO ON SUMMARY 13769	STATION NAME Oceana, Virginia	LATITUDE 36°48'N	LONGITUDE 76°01'W	STATION ELEV (FT) 22	CALL SIGN KNTU	WMO NO. JUNE 2
--------------------------------	----------------------------------	---------------------	----------------------	-------------------------	-------------------	----------------

## STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1945	1954	36°50'N	76°02'W	24	Mercurial	24
2.	" " (ops bldg)	"	1954	1968	"	"	27	"	24
3.	" " " "	"	1968		36°49'N	"	27	"	24
1a.	" " "	"	1967		36°48'N	76°01'W	29	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1945	Atop control tower	Selsyn	Triple	95'	1. Barograph
2.	Installed 1954	Roof of operations building	UMQ-5	RD-108	42'	2. Psychrometer
3.	1960	1100' N of operations building	"	"	13'	3. Semi-auto met station 4. Ceiling light set 5. Cloud height set 6. Transmissometer 7. Weather vision 8. RVR indicator

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

DIRNAVOCEANMET 1tr 3146 Ser 1032 dated 26 August 1977 (NOTAL) established the following policy for SMOS production and updating:

1. Ten years of data will be used as the standard period of record (POR).
2. All available data will be used for extreme values.
3. Summarize (update) every five years.
  - a. Summarize the five year period (1973-1977) for all sections of the SMOS except extremes. The 5 year summary will be an intermediate SMOS to show secular trends. All available data through 1977 will be included for extreme values.
  - b. The update in 1983 will include the POR 1973 through 1982, with all available data through 1982 for extreme values.
  - c. The update in 1988 will be an intermediate SMOS (POR 1983-1987). All available data through 1987 will be included for extreme values.
  - d. In 1993 the POR will be 1983 through 1992. All available data through 1992 will be used for extreme values.

Each standard POR (10 years) summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during, the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of ".0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Weather Service Detachment (NWSD), Asheville, N. C. welcomes your comment and criticisms.





## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

73-77

JAN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		11.0		.6		11.6	23.9	21.9	.6		40.0	155
	04		12.3				12.3	25.8	16.8			38.1	155
	07		11.0		.6		11.6	30.3	21.9			44.5	155
	10		7.7		2.6		10.3	20.6	31.6			49.0	155
	13		5.8		1.9		7.7	11.0	27.1			35.5	155
	16		7.7		2.6		10.3	11.0	28.4			37.4	155
	19		9.0		1.9		11.0	16.8	25.2	.6		38.7	155
	22		11.6		1.3	.6	13.5	20.0	23.2	1.3		39.4	155
TOTALS			9.5		1.4	.1	11.0	19.9	24.5	.3		40.3	1240



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		8.5		.7		9.2	12.1	22.0	.7	.7	33.3	141
	04		7.1		2.1		8.5	15.6	22.7	.7	.7	35.5	141
	07		7.1		1.4		8.5	17.7	34.0	1.4	.7	48.2	141
	10		7.8		1.4		8.5	13.5	30.5	1.4	.7	43.3	141
	13		9.2		1.4		10.6	11.3	22.7	1.4	1.4	35.5	141
	16		9.9		1.4		11.3	10.6	19.1	.7	1.4	31.9	141
	19		7.1		1.4		8.5	10.6	24.8	.7	1.4	36.9	141
	22		8.5		.7		9.2	12.1	21.3	.7	.7	34.0	141
TOTALS			8.2		1.3		9.3	12.9	24.6	1.0	1.0	37.3	1128

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## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769 OCEANA, VIRGINIA 73-77 MAR MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAR	01		11.6		.6		11.6	17.4	23.2			40.0	155
	04		14.2				14.2	20.6	23.2			41.3	155
	07	.6	16.8		1.3		18.1	30.3	29.7			53.5	155
	10		15.5		1.3		16.8	17.4	27.1			43.2	155
	13	1.9	12.3		.6		12.9	12.9	27.1			39.4	155
	16	.6	11.0		1.3		12.3	15.5	27.1		.6	42.6	155
	19	.6	11.0				11.0	14.8	28.4			41.9	155
	22		10.3		.6		10.3	16.1	23.2			38.7	155
TOTALS		.5	12.8		.7		13.4	18.1	26.1		.1	42.6	1240



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

73-77

APR

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01		6.0				6.0	8.0	24.0			30.7	150
	04		9.3				9.3	14.7	25.3			36.7	150
	07	.7	4.7				4.7	20.0	42.0			56.7	150
	10		7.3				7.3	4.7	24.7			29.3	150
	13	.7	6.7				6.7	4.0	22.0		.7	26.0	150
	16	.7	5.3				5.3	4.7	26.0		.7	29.3	150
	19	.7	6.7				6.7	8.0	30.7			37.3	150
	22	1.3	4.7				4.7	6.0	28.7			33.3	150
TOTALS		.5	6.3				6.3	8.0	27.9		.2	34.9	1200

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

73-77

MAY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01		5.8				5.8	23.2	38.1			54.2	155
	04		6.5				6.5	34.8	41.3			62.6	155
	07	.6	4.5				4.5	29.0	52.9			67.1	155
	10	.6	5.2				5.2	11.6	38.1			45.2	155
	13	1.9	7.7				7.7	5.2	38.7			41.9	155
	16	1.3	5.8				5.8	8.4	40.0			46.5	155
	19	1.9	6.5				6.5	11.6	44.5			50.3	155
	22	1.9	9.7				9.7	18.7	40.6			52.3	155
TOTALS		1.0	6.5				6.5	17.8	41.8			52.5	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

73-77

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01	.7	6.0				6.0	20.0	48.7			58.0	150
	04		8.0				8.0	31.3	46.0			62.0	150
	07	.7	6.0				6.0	34.7	55.3			70.7	150
	10	.7	6.7				6.7	6.7	47.3			52.0	150
	13	2.0	6.0				6.0	6.0	41.3			46.7	150
	16	4.0	9.3				9.3	8.0	42.0			48.7	150
	19	.7	7.3				7.3	10.7	47.3			54.7	150
	22	1.3	5.3				5.3	14.7	48.0			57.3	150
TOTALS		1.3	6.8				6.8	16.5	47.0			56.3	1200

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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OCEANA, VIRGINIA

73-77

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01	1.3	5.8				5.8	20.0	58.1			66.5	155
	04	.6	4.5				4.5	34.8	56.8			69.0	155
	07		3.9				3.9	35.5	68.4			76.1	155
	10	1.3	2.6				2.6	3.2	66.5			67.1	155
	13	2.6	5.8				5.8	1.9	65.2			65.8	155
	16	6.5	9.7				9.7	1.3	64.5			65.2	155
	19	1.9	7.7				7.7	3.9	65.2		.6	68.4	155
	22	6.5	5.8				5.8	10.3	64.5			68.4	155
TOTALS		2.6	5.7				5.7	13.9	63.7		.1	68.3	1240



## WEATHER CONDITIONS

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OCEANA, VIRGINIA

73-77

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STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01		4.5				4.5	16.8	61.3			65.2	155
	04	.6	4.5				4.5	34.8	63.2			69.7	155
	07		4.5				4.5	43.2	69.0			78.1	155
	10	.6	4.5				4.5	2.6	67.7			69.0	155
	13	1.3	4.5				4.5	.6	63.2			63.9	155
	16	4.5	8.4				8.4	1.3	61.3			62.6	155
	19	1.9	5.8				5.8	1.3	64.5			65.2	155
	22	.6	4.5				4.5	4.5	62.6			63.2	155
TOTALS		1.2	5.2				5.2	13.1	64.1			67.1	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

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OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01	.7	6.7				6.7	20.0	50.7			59.3	150
	04		5.3				5.3	34.7	48.7			63.3	150
	07		4.7				4.7	40.0	56.0			70.0	150
	10		5.3				5.3	4.7	51.3			54.0	150
	13	.7	8.0				8.0	3.3	46.7			49.3	150
	16	1.3	6.0				6.0	2.7	50.7			53.3	150
	19	1.3	5.3				5.3	6.0	54.0			58.0	150
	22		6.0				6.0	10.0	52.0			57.3	150
TOTALS		.3	5.9				5.9	15.2	51.3			58.1	1200



## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

73-77

OCT

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01		5.2				5.2	18.1	32.9			43.9	155
	04	.6	8.4				8.4	25.2	34.8			48.4	155
	07		9.0				9.0	38.7	38.7			63.2	155
	10		9.0				9.0	7.7	41.3			48.4	155
	13		9.7				9.7	5.8	31.6			37.4	155
	16	.6	4.5				4.5	7.1	28.4			35.5	155
	19		9.0				9.0	9.0	29.7			37.4	155
	22		5.8				5.8	11.6	31.6			38.1	155
TOTALS		.2	7.6				7.6	15.4	33.6			44.0	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769 STATION OCEANA, VIRGINIA 73-77 YEARS NOV MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		6.7				6.7	15.3	22.7			35.3	150
	04		6.7				6.7	18.0	23.3			36.7	150
	07		6.0				6.0	36.7	27.3			53.3	150
	10		8.0		.7		8.0	13.3	28.0			40.7	150
	13		8.7				8.7	12.0	20.0			30.7	150
	16	.7	7.3				7.3	10.0	20.0			28.0	150
	19		8.7				8.7	10.7	22.0			32.0	150
	22		5.3				5.3	11.3	22.7			33.3	150
TOTALS		.1	7.2		.1		7.2	15.9	23.3			36.3	1200

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

STATION STATION NAME

73-77

YEARS

DEC

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01	.6	14.2		.6		14.8	18.7	13.5			31.0	155
	04		14.2				14.2	20.6	14.2			31.0	155
	07		16.1		.6		16.1	29.7	13.5			36.8	155
	10		13.5	.6	1.9		15.5	15.5	16.1			31.0	155
	13		11.0		1.9		12.9	11.0	14.2			25.2	155
	16		13.5		1.9		15.5	11.0	12.9			23.2	155
	19		16.1		.6		16.8	14.2	14.2			27.7	155
	22		10.3		.6		11.0	14.2	14.2			27.1	155
TOTALS		.1	13.6	.1	1.0		14.6	16.9	14.1			29.1	1240

## WEATHER CONDITIONS

5701 WEATHER CONDITIONS JAN 68

NNNN

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NNNN

L

13769

STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

ALL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.5		1.4	.1	11.0	19.9	24.3	.3		40.3	1240
FEB			8.2		1.3		9.3	12.9	24.6	1.0	1.0	37.3	1128
MAR		.5	12.8		.7		13.4	18.1	26.1		.1	42.6	1240
APR		.5	6.3				6.3	8.8	27.9		.2	34.9	1200
MAY		1.0	6.5				6.5	17.8	41.8			52.5	1240
JUN		1.3	6.8				6.8	16.5	47.0			56.3	1200
JUL		2.6	5.7				5.7	13.9	63.7		.1	68.3	1240
AUG		1.2	5.2				5.2	15.1	64.1			67.1	1240
SEP		.5	5.9				5.9	15.2	51.3			58.1	1200
OCT		.2	7.6				7.6	15.4	33.6			44.0	1240
NOV		.1	7.2		.1		7.2	15.9	23.3			36.3	1200
DEC		.1	13.6	.1	1.0		14.6	16.9	14.1			29.1	1240
TOTALS		.7	7.9	.0	.4	.0	8.3	15.4	36.8	.1	.1	47.2	14608



# WEATHER CONDITIONS

## ATMOSPHERIC PHENOMENA

5701 WEATHER CONDITIONS JAN 68

13769

OCEANA, VIRGINIA

STATION NAME

49, 51-77

YEARS

ALL

MONTH

### PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	0.6	41.6	2.1	13.9	.1	47.6	44.8	59.8	2.2	.1	71.2	806
FEB		1.6	44.5	1.1	11.4	.3	48.9	43.0	58.0	1.5		68.8	753
MAR		5.8	46.2	.4	5.5	.5	48.1	42.9	57.9	.7	.4	68.6	806
APR		8.6	45.9		.6	.4	45.9	46.8	62.4		.3	72.1	780
MAY		16.1	45.2			.4	45.2	57.6	72.5		.2	80.8	806
JUN		18.0	42.4			.2	42.4	59.0	80.1		.1	86.6	805
JUL		28.3	46.6			.2	46.6	59.1	83.1			86.7	812
AUG		23.2	45.4			.2	45.4	67.0	83.4		.4	88.8	806
SEP		8.7	37.9			.1	37.9	61.8	73.6			80.6	780
OCT		4.2	35.1				35.1	56.7	68.1		.1	77.3	806
NOV		2.1	39.0		2.2		39.5	49.7	61.9			70.6	780
DEC		1.6	38.9	.4	5.9		41.3	42.8	56.7	.6		67.3	836
TOTALS		9.9	42.4	.3	3.3	.2	43.7	52.6	68.1	.4	.1	76.6	9576

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 73 - DEC 77  
YEARS

JANUARY  
MONTH

ALL  
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	8.6	2.2	3.6			9.4			19.4	2.9	26.6	2.2		45.3
NNE	15.2	2.2	2.2						30.4	4.3	37.0			32.6
NE	11.5	7.7							19.2		50.0			30.8
ENE	8.0								8.0	8.0	44.0			44.0
E	5.9		2.9						8.8	5.9	44.1			47.1
ESE	22.7								18.2		27.3			54.5
SE	14.3	7.1							21.4		25.0			50.0
SSE	2.1	10.4							20.8	2.1	35.4			47.9
S	7.9	1.3	2.6			1.3			22.4	11.8	25.0			47.4
SSW	5.6	2.8							11.1	4.2	22.2			65.3
SW	4.7	.9	1.9						5.6	4.7	26.2			61.7
WSW	3.7	3.7	.9						10.1	7.3	27.5			57.8
W	2.0	2.0	1.0						11.9	4.0	11.9			76.2
WNW	1.9								15.4		3.8			80.8
NW	3.1	1.5							16.9		12.3	1.5		70.8
NNW	3.1		4.6			3.1	.6		16.9		15.4			66.2
VARIABLE														
CALM	3.1	1.3	1.4						12.5	13.1	28.1			54.6
TOTAL	70	26	22			18	1		186	61	303	4		712
% TOTAL	5.6	2.1	1.8			1.5	.1		15.0	4.9	24.4	.3		57.4

TOTAL NUMBER OF OBSERVATIONS 1,240



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

STATION

OCEANA, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

FEBRUARY

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW GRAINS " CLOUDS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.0	1.3	2.0			6.1			14.4	1.5	18.2	7.6		56.8
NNE	22.0	2.0	8.0			4.0			46.0		22.0	2.0		32.0
NE	32.0								32.0		44.0			24.0
ENE	4.8	4.8							9.5	14.3	33.3			47.6
E	13.3	3.7							33.3	7.4	22.2			44.4
ESE	5.3								15.6	5.3	5.3			73.7
SE	4.7								7.0	2.3	27.9			65.1
SSE	9.4		1.0						5.7	3.8	30.2			56.6
S	4.8	4.8							6.7	2.9	32.7			55.8
SSW	2.2	3.3	1.1						1.1		23.9			69.6
SW	1.0								6.9	2.0	16.8			73.3
WSW	2.7	2.7	1.4						6.8	5.4	18.9			63.5
W	5.8	1.4				1.4			7.2		20.3			71.0
WNW									4.7		20.9			74.4
NW	1.3	3.6	3.6						8.9		17.9			71.4
NNW	2.5	1.3	1.3		1.3	3.6			8.9		19.0			67.1
VARIABLE														
CALM														
TOTAL	55	22	15		1	14			117	29	276	11		683
% TOTAL	4.9	2.0	1.3		.1	1.2			10.4	2.6	24.5	1.0		60.5

TOTAL NUMBER OF OBSERVATIONS

1,128

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769 STATION OCEANA, VIRGINIA JAN 73 - DEC 77 YEARS MONTH MARCH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	7.1	4.8	7.9		.6	4.8		1.6	31.0		20.6			46.8
NNE	16.1	4.8	12.9						31.6		22.6			30.6
NE	9.8	7.8	3.9						27.5		35.3			37.3
ENE	17.1		7.3						24.4		29.3			41.5
E	16.2	4.1	2.7						27.0	2.7	39.2			33.8
ESE	7.0	2.3							11.6		37.2			53.5
SE	19.6	7.1						1.8	23.2	1.8	30.4			41.1
SSE	7.1	5.4						1.8	8.9		17.9			69.6
S	5.0	5.0	1.0			1.0			5.9		26.7			65.3
SSW	1.9	.9						.9	.9	2.8	37.0			58.3
SW	1.2	3.6	1.2						2.4	2.4	32.5		1.2	62.7
WSW	1.5	1.5							7.4	2.9	26.5			66.2
W		4.1	1.4						9.6	2.7	26.0			60.3
WNW	2.2		2.2			2.2			4.4		6.7			84.4
NW	3.3	1.7							10.0		11.7			76.7
NNW	8.6	1.2	3.7			1.2		1.2	21.0	1.2	11.1			67.9
VARIABLE	<del>4.5</del>	<del>1.8</del>	<del>.5</del>	<del></del>	<del></del>	<del></del>	<del></del>	<del></del>	<del>11.6</del>	<del>11.6</del>	<del>27.7</del>	<del></del>	<del></del>	<del>48.2</del>
CALM														
TOTAL	85	41	33		1	9		6	197	28	323		1	687
% TOTAL	6.9	3.3	2.7		.1	.7		.5	15.9	2.3	26.0		.1	55.4

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769  
STATIONOCEANA, VIRGINIA  
STATION NAMEJAN 73 - DEC 77  
YEARSAPRIL  
MONTHALL  
HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	2.9		2.9						7.2		24.6			68.1
NNE	3.7	7.4	3.7					3.7	33.3		11.1			55.6
NE	2.2	11.1							13.3	2.2	42.2			40.0
ENE	6.1	3.0						3.0	15.2		48.5			42.4
E	2.9	4.4	1.8						4.4	4.4	38.2			52.9
ESE	6.3	2.1							6.3	2.1	25.0			64.6
SE	3.9	3.9							11.8		25.5			64.7
SSE	1.9								1.9		21.2			76.9
S	2.8	7.5							7.5	.9	32.1			57.5
SSW		6.0						.9	2.6	.9	36.2			56.9
SW		1.7						.8	3.3	.8	33.1		1.7	62.0
WSW		3.0						1.1	6.1	7.6	31.8			54.5
W		4.5							3.4		9.0			85.4
WNW	4.5	2.3									13.6			81.6
NW		3.8						1.9	5.7		13.2			81.1
NNW	5.4	4.3	1.1						6.5		19.6			72.8
VARIABLE														
CALM														
TOTAL	24	47	5					6	72	33	333		2	755
% TOTAL	2.0	3.9	.4					.5	6.0	2.8	27.8		.2	62.9

TOTAL NUMBER OF OBSERVATIONS

1,200

# PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

STATION 13769 OCEANA, VIRGINIA STATION NAME JAN 73 -DEC 77 YEARS MAY MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.3	7.7	2.6					1.3	28.2	2.6	25.9			42.3
NNE	5.5	1.8						3.6	27.3	3.6	43.6			29.1
NE	3.4	6.8	3.4						22.0	3.4	55.9			28.8
ENE	2.8	5.6							8.5	8.5	47.9			43.7
E	3.0	4.0							13.1		42.4			50.5
ESE	2.6	2.6	1.3					2.6	14.5	1.3	34.2			55.3
SE	3.8	3.8						1.3	10.3	2.6	43.6			43.6
SSE	4.5	3.0							7.5	9.0	33.7			35.8
S	3.2	2.4	.8					.8	8.1	5.6	31.5			58.1
SSW	1.9	3.8						2.9	4.8	5.8	47.1			44.2
SW	1.0	3.0						1.0	2.0	7.0	42.0			54.0
WSW		2.0							3.9	7.8	45.1			45.1
W		4.8						2.4	7.1	9.5	33.3			54.8
WNW		3.8							3.8	3.8	30.8			57.7
NW		8.1	2.7					2.7	13.5	2.7	43.2			45.9
NNW		3.6	1.8						8.9	7.1	41.1			48.2
VARIABLE														
CALM														
TOTAL	26	46						13	145	76	517			570
% TOTAL	2.1	3.7	.6					1.0	11.7	6.1	41.7			46.0

TOTAL NUMBER OF OBSERVATIONS 1,240



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

JUNE

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.7	3.8	3.8					1.9	20.8	1.9	30.2			47.2
NNE	2.0		2.0						16.4		24.5			57.1
NE	14.7	5.9	4.4					1.5	20.6	1.5	41.2			32.4
ENE	7.3	3.6						1.8	10.9	1.8	60.0			27.3
E		1.1						2.2	4.3	4.3	49.3			46.2
ESE		4.2							1.4		43.7			52.1
SE	1.7	3.4							8.5	3.4	54.2			39.0
SSE	1.4	10.1						1.4	17.4	2.9	40.6			39.1
S	3.1	4.7							8.7	2.4	40.9			47.2
SSW		5.3						.9	3.5	8.0	57.5			34.5
SW								.7	3.7	14.8	54.1			39.3
WSW								1.8	1.8	7.0	52.6			42.1
W	2.5	10.0						7.5	10.0	5.0	37.5			47.5
WNW		11.1						3.7	7.4	7.4	25.9			59.3
NW	3.8	3.8							30.8		34.6			42.3
NNW	2.2	6.5	10.9					4.3	23.9		37.0			41.3
VARIABLE														
CALM									8.9	25.9	61.6			29.5
TOTAL	27	45	11					15	118	80	563			494
% TOTAL	2.3	3.8	.9					1.3	9.8	6.7	46.9			41.2

TOTAL NUMBER OF OBSERVATIONS

1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

OCEANA, VIRGINIA

JAN 73 - DEC 77

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N		2.8						2.8	5.6	19.4	52.8			36.1
NNE		1.7						1.7	13.8	3.4	51.7			39.7
NE		3.1						1.6	7.8		53.1			39.1
ENE		7.0						4.7		2.3	58.1			39.5
E		5.5						4.1		1.4	68.5			26.8
ESE		9.3						6.3		3.2	69.8			27.0
SE		1.7								1.7	67.8			30.5
SSE		11.5						1.6	1.6	9.8	53.7			36.1
S		6.4						2.8	5.0	6.4	70.9			24.8
SSW	1.4	5.1						2.2	5.8	5.1	59.4			34.8
SW	6.6	5.5						1.8	2.5	14.7	75.5			19.0
WSW		1.5						4.4	2.9	5.9	76.5			22.1
W	4.7	9.3						7.0	7.0	4.7	53.8			32.6
WNW									11.1	16.7	44.4			44.4
NW		2.0						4.0	8.0		60.0			32.0
NNW								3.1		9.4	59.4		3.1	37.5
VARIABLE														
CALM	1.3	4.5						6.8	9.0	27.1	18.1			27.1
TOTAL	7	64						32	38	114	789		1	369
% TOTAL	6.6	5.2						2.6	4.7	9.2	63.5		.1	29.8

TOTAL NUMBER OF OBSERVATIONS

1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

OCEANA, VIRGINIA

JAN 73 - DEC 77

AUGUST

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.6	3.6						1.8	5.5		38.2			52.7
NNE	3.4	5.1							1.7	3.4	40.7			54.2
NE	4.3	6.5							6.5	2.2	47.8			43.5
ENE	1.5	6.1								4.5	66.7			31.8
E		2.4							1.2	3.6	71.1			26.5
ESE		4.5						1.5	4.5	1.5	68.2			25.8
SE		1.9						1.9		7.4	66.7			33.3
SSE		10.2						5.1	3.4	1.7	81.4			15.3
S		2.1						.7	3.5	4.9	72.9			26.4
SSW		4.9						3.8	4.9	5.7	70.5			26.2
SW		3.8							.6	14.6	63.9			30.4
WSW		3.7							1.2	8.5	64.6			31.7
W		3.3						3.3	3.3	30.0	53.3			33.3
WNW			9.1							18.2	63.6			27.3
NW	5.9	11.8						5.9	5.9		52.9			35.3
NNW	7.4	3.7							7.4		40.7			44.4
VARIABLE														
CALM	1.6	3.7							4.8	32.3	67.1			44.8
TOTAL	11	52	1					15	41	122	795			383
% TOTAL	9	4.2	.1					1.2	3.3	9.8	64.1			30.9

TOTAL NUMBER OF OBSERVATIONS

1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

OCEANA, VIRGINIA

JAN 73 - DEC 77

SEPTEMBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.6	5.1							11.5	1.3	25.6			61.5
NNE	10.4	3.9	1.3						11.7	1.3	49.6			36.4
NE	8.2	1.6							18.0	3.3	55.7			31.1
ENE	6.8	4.1							9.5	2.7	51.4			40.5
E	5.0	4.0							4.0	3.0	55.0			37.0
ESE	4.2	2.1							8.3	2.1	60.4			29.2
SE	6.7	3.3							3.3	5.0	55.0			38.3
SSE	3.8	1.9	1.9					1.8	7.5	52.8				41.5
S	2.9	1.0						1.0	4.8	8.6	47.6			47.6
SSW		2.9							3.9	8.8	47.1			44.1
SW									6.7	7.9	60.7			33.7
WSW									3.5	5.3	57.9			42.1
W		2.6							2.6	7.9	52.6			39.5
WNW	6.7	6.7						6.7	26.7		26.7			46.7
NW	4.0								4.0	8.0	52.0			44.0
NNW	3.0	3.0						3.0	6.1	3.0	34.8			57.6
VARIABLE														
CALM									3.3	14.2	61.8			30.3
TOTAL	41	28	2					6	78	104	614			487
% TOTAL	3.4	2.3	.2					.5	6.5	8.7	51.2			40.6

TOTAL NUMBER OF OBSERVATIONS

1,200



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

OCEANA, VIRGINIA

JAN 73 - DEC 77

OCTOBER

ALL

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	7.5	3.0	3.7					.7	9.7		29.1			54.5
NNE	7.3	3.1	6.3						16.7		37.5			43.8
NE	5.2	1.7							5.2	5.2	31.0			60.3
ENE										4.0	54.0			46.0
E	2.9		1.4						2.9	2.9	22.9			71.4
ESE	15.8								18.4	7.9	47.4			29.9
SE	19.2	3.8	3.8						19.2		50.0			23.1
SSE	10.3	6.9	3.4						13.8	6.9	41.4			37.9
S	5.9	4.4						1.4	10.3	4.4	45.8			42.6
SSW	2.7	2.7	1.4						5.4	5.4	24.3			59.5
SW	.8	1.5							5.3	10.6	37.8			53.0
WSW		1.5							4.6	6.2	38.5			58.5
W	4.4								8.9	6.7	35.6			55.6
WNW	5.0								3.8	5.0	10.0			85.0
NW	3.8								8.1	1.0	22.2			84.9
NNW	5.1	2.0	2.0											66.7
VARIABLE														
CALM	1.1	.5							4.6	4.6	37.2			43.1
TOTAL	55	22	17					2	97	94	416			662
% TOTAL	4.4	1.8	1.4					.2	7.8	7.6	33.5			53.4

TOTAL NUMBER OF OBSERVATIONS

1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1970

OCEANA, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

NOVEMBER

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	13.4	1.0	2.1			1.0			17.5		11.3			68.0
NNE	9.5	2.4	4.8						26.2		9.3			61.9
NE	6.3	3.1	6.3						37.5		18.3			40.6
ENE	5.0		5.0						20.0		20.0			55.0
E	8.8	1.3							10.5	1.8	17.5			63.2
ESE	10.7	3.6							10.7	7.1	42.9			35.7
SE									9.1	9.1	13.6			68.2
SSE	2.6								10.3	5.1	30.8			53.8
S	3.2	2.1							12.6	1.1	26.3			61.1
SSW	4.0	2.4							8.8	4.0	39.2			48.8
SW	1.4	.7							7.2	10.1	36.7			51.1
WSW	1.2	2.3								7.4	19.8			71.6
W	2.2	2.2	2.2						7.7	1.1	8.8			79.1
WNW		6.8							2.3	2.3	13.6			81.8
NW	1.6	4.9	3.3					1.6	11.5	1.6	14.8			72.1
NNW	5.6	1.1	1.1						12.4		12.4			71.9
VARIABLE														
CALM	3.7		3.7						8.4	17.4	29.7			32.9
TOTAL	51	22	13			1		1	131	60	278			735
% TOTAL	4.3	1.8	1.1			.1		.1	10.9	5.0	23.2			61.3

TOTAL NUMBER OF OBSERVATIONS

1,200

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769 OCEANA, VIRGINIA STATION NAME JAN 73 - DEC 77 YEARS DECEMBER MONTH ALL HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	11.1	1.7	.9		.9	4.3			12.8	1.7	12.0			68.4
NNE	19.6	1.8	3.6						17.9		16.1			60.7
NE	17.1		11.4						25.7		28.6			40.0
ENE	16.2		6.1						12.1		18.2			63.6
E	16.7	4.8	2.4						26.2		4.8			61.9
ESE	21.4								25.0	3.6	25.0			39.3
SE	18.5	7.4							33.3	3.7	14.8			48.1
SSE	18.2	4.5	2.3					2.3	13.6		22.7			50.0
S	7.8	3.9	1.0						12.7		15.7			68.6
SSW	8.0	3.0	1.0						6.0	1.0	14.0			70.0
SW	4.2	.8	.8						6.8	3.4	13.6			76.3
WSW	8.2	2.4				1.2			8.2	5.9	20.0			68.2
W	2.2	3.2	1.1	1.1	1.1	1.1			11.8	1.1	14.0			75.3
WNW	3.1	1.5							7.7	1.5	7.7			83.1
NW	10.4		1.3			3.7			14.3	3.9	7.8			71.4
NNW	13.9	5.1	3.8			3.8			22.8		6.3			63.3
VARIABLE														
CALM	8.5								14.4	14.4	14.4			19.7
TOTAL	125	27	19	1	1	13		1	170	39	174			821
% TOTAL	10.1	2.2	1.3	.1	.1	1.0		.1	13.7	3.1	14.0			66.2

TOTAL NUMBER OF OBSERVATIONS 1,240

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13769

OCEANA, VIRGINIA

STATION NAME

JAN 73 - DEC 77

YEARS

ALL

MONTH

ALL

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	0.5	3.0	3.0		.2	3.0		.6	16.3	1.7	24.4	1.2		54.8
NNE	9.6	3.0	3.8			.3		.6	23.2	1.3	32.8	.1		43.4
NE	8.2	4.7	2.3					.4	18.1	1.8	43.2			37.9
ENE	5.8	3.4	1.1					.8	8.6	3.8	48.3			41.5
E	5.2	3.0	.7					.6	9.3	2.8	43.4			45.6
ESE	5.6	3.3	.2					1.3	9.3	2.4	44.9			43.5
SE	6.6	3.6	.2					.5	10.3	3.0	43.3			44.0
SSE	4.6	5.6	.6					1.4	8.4	4.1	41.6			46.0
S	3.5	3.9	.4			.2		.5	8.4	4.0	41.1			49.0
SSW	2.1	3.7	.2					.8	4.8	4.3	41.9			49.4
SW	1.2	1.9	.3					.8	4.3	8.3	43.0		.2	49.4
WSW	1.7	2.2	.2			.1		.5	5.0	6.5	38.5			53.0
W	2.1	3.6	.7	.1		.3		1.2	8.1	4.1	23.7			65.5
WNW	2.0	2.4	.5			.2		.5	6.6	2.7	16.3			74.1
NW	3.4	3.1	1.1			.3		.9	11.2	1.3	20.3	.2		67.0
NNW	5.0	2.4	2.6		.1	1.3	.1	.7	12.7	1.3	22.0		.1	62.7
VARIABLE														
CALM	1.3	1.6	.4					.1	8.6	21.1	41.7			42.5
TOTAL	577	442	146	1	3	55	1	97	1410	840	5301	15	4	7358
% TOTAL	3.3	3.0	1.0	.0	.0	.4	.0	.7	9.7	5.8	36.8	.1	.0	50.4

TOTAL NUMBER OF OBSERVATIONS

14,608





NWSD, Federal Building  
Asheville, N. C.

## PART B      PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

### PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

### SNOWFALL\*

DERIVED FROM DAILY OBSERVATIONS

### SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956,

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
13769	OCEANA, VIRGINIA	51-77

YEARS

AMOUNTS (INCHES)															PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN			GREATEST	LEAST	
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4						
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120						
JAN	52.4	15.4	2.0	6.3	3.8	5.8	6.7	5.7	1.6	.2				32.3	806	3.49	7.35	1.65	
FEB	50.6	15.1	2.3	5.9	3.7	6.9	6.1	6.5	2.9					34.3	735	3.55	5.95	1.05	
MAR	51.9	13.8	2.4	6.3	4.3	8.2	5.2	5.6	2.1	.2				34.4	806	3.61	6.15	1.55	
APR	54.1	14.7	2.4	6.5	5.2	8.3	4.1	3.2	1.2	.3				31.2	750	2.50	6.87	.99	
MAY	54.8	14.0	1.9	5.6	3.2	6.7	6.1	5.0	2.6	.1				31.1	806	3.58	6.63	1.08	
JUN	57.3	14.2	3.7	4.2	3.1	5.1	5.3	4.4	2.3	.4				28.5	780	3.22	6.79	.03	
JUL	53.0	11.5	3.7	4.3	3.1	7.4	4.0	8.1	4.5	.4				35.5	775	5.17	10.67	.94	
AUG	54.1	13.7	2.2	4.4	3.2	7.0	5.2	5.7	3.6	.6	.4			32.3	775	5.59	17.80	1.58	
SEP	62.0	12.7	1.9	5.1	2.7	5.1	3.2	3.3	2.8	1.2	.1			25.3	750	4.12	11.49	.58	
OCT	64.6	11.9	2.2	2.7	1.8	5.5	3.5	3.9	3.4	.4	.1			23.5	775	3.74	9.99	.82	
NOV	60.5	13.6	2.2	5.9	2.8	4.6	5.0	3.6	1.4	.4				25.9	780	2.68	7.48	.47	
DEC	58.7	12.0	1.6	4.6	3.6	6.5	5.3	5.3	1.9					29.3	806	3.24	5.81	.62	
ANNUAL	56.2	13.5	2.4	5.1	3.4	6.4	5.0	5.0	2.5	.3	.0			30.3	9344	4.49			

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

13769 STATION OCEANA, VIRGINIA STATION NAME 45. 52-77 YEARS

PRECIP.	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-30.4	30.5-40.4	40.5-50.4	50.5-60.4	60.5-70.4	70.5-80.4	80.5-90.4	90.5-100.4	PERCENT OF DAYS WITH MEASURABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
																						MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-30.4	30.5-40.4	40.5-50.4	50.5-60.4	60.5-70.4	70.5-80.4	80.5-90.4	90.5-100.4					
SNOW-DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120											
JAN	86.4	9.7	.5	1.1	.9	.5	.2	.2	.5											4.0	806	3.2	17.6	.0
FEB	88.6	7.9	.4	1.9	.3	.3	.5	.1												3.5	735	1.7	7.5	.0
MAR	94.6	3.5	.1	.9	.8				.1											1.9	775	1.0	7.0	.0
APR	99.4	.6																			780	TRACE	TRACE	.0
MAY	100.0																				806	.0	.0	.0
JUN	100.0																				780	.0	.0	.0
JUL	100.0																				837	.0	.0	.0
AUG	100.0																				837	.0	.0	.0
SEP	100.0																				810	.0	.0	.0
OCT	100.0																				837	.0	.0	.0
NOV	98.1	1.9																			810	TRACE	TRACE	.0
DEC	93.8	4.8	.3	.4	.3	.1	.3		.1											1.4	775	1.0	12.2	.0
ANNUAL	96.7	2.4	.1	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.9	9588	6.9		



PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION NAME
OCEANA, VIRGINIA

52-77

YEARS

5722 Daily Amounts Jan. 1969

		AMOUNTS (INCHES)														PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00	MEAN	GREATEST			LEAST		
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4							
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120							
JAN	90.0	4.6	2.2	1.2	.7	.6	.6							5.5	806					
FEB	92.7	3.5	1.6	1.2	.4	.5								3.8	735					
MAR	97.8	.8	.6	.5	.1	.1								1.4	775					
APR	100.0														780					
MAY	100.0														806					
JUN	100.0														780					
JUL	100.0														806					
AUG	100.0														806					
SEP	100.0														780					
OCT	100.0														806					
NOV	100.0														720					
DEC	95.4	1.7	.8	1.1	.3	.4	.3							2.8	744					
ANNUAL	98.0	.9	.4	.3	.1	.1	.1							1.1	9344					

2

## EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

13762 STATION OCEANA, VIRGINIA STATION NAME 45-48, 51-77 YEARS

192559

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45	2.02	1.69	1.69	1.12	2.44	.80	.83	2.00	.53	1.10	4.18	1.98	4.18
46	.37	1.15	.61	2.19	1.01	.84	2.18	6.05	3.93	.80	2.48	.82	6.05
47	2.79	.71	1.10	.59	1.32	.03		1.64	1.88		.31	.72	
48	.78	2.00	2.59	.42	.70	1.08	1.34	3.85	2.01	1.23	.65	.74	3.85
49													
51												.82	
52													
53													
54													
55													
56													
57													
58													
59													
60													
61													
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													
72													
73													
74													
75													
MEAN													
S. D.													
TOTAL OBS.													

5723 Extreme Values Jan 1969

## EXTREME VALUES

**PRECIPITATION**  
(FROM DAILY OBSERVATIONS)

(FROM DAILY OBSERVATIONS)

13769

**OCEANA, VIRGINIA**

STATION

STATION NAME

45-48, 51-77

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

## EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
13769	OCEANA, VIRGINIA	45-48, 51-77

YEARS

192563

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

5723 Extreme Values Jan 1969

[illegible]

NAVWEASERVCOM



## EXTREME VALUES

## SNOWFALL

(FROM DAILY OBSERVATIONS)

13769

OCEANA, VIRGINIA

STATION

45-49, 51-77

STATION NAME

YEARS

## 24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
46	.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
47	1.6	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0		
48	3.5	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
49	.9	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
50	TRACE	TRACE	.0	TRACE	.0	.0	.0	.0	.0	.0	.0		
51	2.0	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
52	2.0	.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
53	TRACE	3.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0		
54	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
55	7.6	.5	1.8	.0	.0	.0	.0	.0	.0	.0	.0		
56	TRACE	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
57	TRACE	3.9	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0		
58	5.5	4.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
59	9.5	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	.0		
60	3.0	2.6	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
61	1.5	4.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0		
62	TRACE	1.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0		
63	.5	1.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
64	.8	.8	2.1	TRACE	.0	.0	.0	.0	.0	.0	.0		
65	TRACE	.2	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0		
66	6.8	5.0	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
67	TRACE	1.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0		
68	TRACE	TRACE	TRACE	.0	.0	.0	.0	.0	.0	.0	.0		
69	MEAN												
70	S. D.												
71	TOTAL OBS.												

523 Extreme Values Jan 1969

## EXTREME VALUES

**SNOWFALL**  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS	(FROM DAILY OBSERVATIONS)
13769	OCEANA, VIRGINIA	45-49, 51-77	

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

**SNOWFALL**

(FROM DAILY OBSERVATIONS)

13769 OCEANA, VIRGINIA

45-49, 51-77

STATION	STATION NAME
1	STATION 1
2	STATION 2
3	STATION 3
4	STATION 4
5	STATION 5
6	STATION 6
7	STATION 7
8	STATION 8
9	STATION 9
10	STATION 10
11	STATION 11
12	STATION 12
13	STATION 13
14	STATION 14
15	STATION 15
16	STATION 16
17	STATION 17
18	STATION 18
19	STATION 19
20	STATION 20
21	STATION 21
22	STATION 22
23	STATION 23
24	STATION 24
25	STATION 25
26	STATION 26
27	STATION 27
28	STATION 28
29	STATION 29
30	STATION 30
31	STATION 31
32	STATION 32
33	STATION 33
34	STATION 34
35	STATION 35
36	STATION 36
37	STATION 37
38	STATION 38
39	STATION 39
40	STATION 40
41	STATION 41
42	STATION 42
43	STATION 43
44	STATION 44
45	STATION 45
46	STATION 46
47	STATION 47
48	STATION 48
49	STATION 49
50	STATION 50
51	STATION 51
52	STATION 52
53	STATION 53
54	STATION 54
55	STATION 55
56	STATION 56
57	STATION 57
58	STATION 58
59	STATION 59
60	STATION 60
61	STATION 61
62	STATION 62
63	STATION 63
64	STATION 64
65	STATION 65
66	STATION 66
67	STATION 67
68	STATION 68
69	STATION 69
70	STATION 70
71	STATION 71
72	STATION 72
73	STATION 73
74	STATION 74
75	STATION 75
76	STATION 76
77	STATION 77
78	STATION 78
79	STATION 79
80	STATION 80
81	STATION 81
82	STATION 82
83	STATION 83
84	STATION 84
85	STATION 85
86	STATION 86
87	STATION 87
88	STATION 88
89	STATION 89
90	STATION 90
91	STATION 91
92	STATION 92
93	STATION 93
94	STATION 94
95	STATION 95
96	STATION 96
97	STATION 97
98	STATION 98
99	STATION 99
100	STATION 100

YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

[illegible]

2

## EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)13769 OCEANA, VIRGINIA 49, 51-77 YEARS  
STATION STATION NAME

192571

## DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45													
46													
47													
48													
49													
50													
51													
52	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0
54	2	0	0	0	0	0	0	0	0	0	0	0	2
55	3	0	0	0	0	0	0	0	0	0	0	0	0
56	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
57	0	0	0	0	0	0	0	0	0	0	0	0	TRACE
58	1	TRACE	0	0	0	0	0	0	0	0	0	0	10
59	2	0	0	0	0	0	0	0	0	0	0	0	0
60	0	1	3	0	0	0	0	0	0	0	0	0	0
61	1	TRACE	0	0	0	0	0	0	0	0	0	0	0
62	9	TRACE	1	0	0	0	0	0	0	0	0	0	9
63	0	5	1	0	0	0	0	0	0	0	0	0	5
64	0	2	0	0	0	0	0	0	0	0	0	0	0
65	6	2	0	0	0	0	0	0	0	0	0	0	0
66	6	4	0	0	0	0	0	0	0	0	0	0	0
67	2	3	0	0	0	0	0	0	0	0	0	0	0
68	2	2	2	0	0	0	0	0	0	0	0	0	0
69	0	TRACE	2	0	0	0	0	0	0	0	0	0	0
70	TRACE	1	0	0	0	0	0	0	0	0	0	0	1
71	TRACE	TRACE	2	0	0	0	0	0	0	0	0	0	2
72	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
73	7	5	0	0	0	0	0	0	0	0	0	0	7
74	0	TRACE	4	0	0	0	0	0	0	0	0	0	4
75	TRACE	0	0	0	0	0	0	0	0	0	0	0	TRACE
MEAN													
S. D.													
TOTAL OBS.													

NAVWEASERVCOM

5723 Extreme Values Jan 1969





## EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION	STATION NAME	YEARS
13769	OCEANA, VIRGINIA	49, 51-77

YEARS

DAILY SNOW DEPTH IN INCHES  
/BASED ON LESS THAN FULL MONTHS/[illegible]

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769 STATION

OCEANA, VIRGINIA STATION NAME

1946-1949 1952-1977 YEARS

# DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

JANUARY MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.00	25	1962	T	T	1971*
2	0.32	8	1953	T	T	1962
3	0.75	19	1960	T	T	1969
4	0.67	17	1972	T	T	1963*
5	3.27	83	1971	T	T	1977*
6	1.85	47	1962	1.0	25	1977
7	1.14	29	1958	2.0	51	1958
8	1.55	39	1967	6.8	173	1973
9	0.87	22	1964	0.9	23	1956
10	0.96	24	1952	7.6	193	1962
11	1.08	27	1954	1.3	33	1955
12	0.59	18	1962	6.9	175	1962
13	0.95	24	1975	T	T	1964*
14	1.68	43	1961	T	T	1975*
15	1.17	30	1954	2.8	71	1965
16	0.97	25	1965	5.0	127	1965
17	0.06	2	1970	T	T	1976*
18	0.65	17	1963	T	T	1971
19	0.64	16	1962	3.0	76	1967
20	1.58	40	1969	0.4	10	1970
21	0.33	8	1954	T	T	1975*
22	2.79	71	1954	T	T	1961
23	0.42	11	1954	1.6	41	1954
24	0.61	15	1958	3.5	89	1955
25	0.85	22	1964	0.1	3	1968
26	1.22	31	1966	9.5	241	1966
27	0.95	24	1976	3.0	76	1966
28	1.69	43	1962	3.1	79	1962
29	0.69	18	1966	4.4	112	1966
30	0.55	14	1971*	5.5	140	1965
31	1.26	32	1960	1.0	25	1965
Monthly	3.27	83	1971	9.5	241	1966

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.82	21	1976	T	T	1971*
2	1.39	35	1973	T	T	1976*
3	1.81	46	1970	1.0	25	1970
4	1.18	30	1959	1.0	25	1974
5	0.80	20	1960	T	T	1977*
6	0.93	24	1956			
7	0.67	17	1967	4.2	107	1968
8	1.43	36	1961	3.9	99	1964
9	0.46	12	1957	2.6	66	1967
10	0.50	13	1973	5.0	127	1973
11	0.75	19	1956	1.3	33	1964
12	1.22	31	1963	1.0	25	1964
13	1.19	30	1960	3.0	76	1960
14	1.12	28	1965	4.0	102	1965
15	1.20	30	1958	T	T	1974*
16	2.15	55	1974	2.0	51	1977
17	0.97	25	1967	T	T	1967
18	0.41	10	1960	T	T	1977*
19	0.87	22	1963	0.2	5	1972
20	0.46	12	1956	1.0	25	1969
21	0.71	18	1954	1.0	25	1963
22	0.79	20	1974	T	T	1973*
23	0.38	10	1962			
24	1.69	43	1952	1.0	25	1968
25	1.25	32	1961	T	T	1974*
26	1.43	36	1958	4.0	102	1963
27	2.00	51	1955	2.0	51	1973
28	2.09	53	1957	0.4	10	1964
29	0.79	20	1968	1.3	33	1968
30						
31	2.15	55	1974	5.0	127	1973
Monthly						

\* ALSO ON EARLIER YEARS  
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

1945-1949 1952-1977  
YEARS

MARCH

MONTH

APRIL

MONTH

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST			
	INCHES	MM	DATE		INCHES	MM	DATE	
1	1.04	26	1959		1.1	28	1968	
2	0.62	16	1969		2.3	58	1969	
3	1.36	35	1971		0.6	15	1960	
4	0.78	20	1952		T	T	1971	
5	1.02	26	1962					
6	2.59	66	1955		1.8	46	1962	
7	0.70	18	1969		1.1	28	1962	
8	1.29	33	1957		T	T	1960*	
9	1.74	44	1976		2.2	56	1969	
10	0.20	5	1975		1.6	41	1960	
11	0.75	19	1974		T	T	1974	
12	0.98	25	1968		T	T	1974	
13	0.56	14	1975		T	T	1968	
14	1.10	28	1954					
15	0.68	17	1964		T	T	1970*	
16	1.77	45	1956		T	T	1970	
17	4.09	104	1968		T	T	1967	
18	0.46	12	1970*					
19	1.75	44	1975		T	T	1956*	
20	0.96	24	1977		0.1	3	1960	
21	1.91	49	1973		0.6	15	1960	
22	0.51	13	1972		T	T	1973	
23	0.32	8	1968					
24	1.65	42	1952		T	T	1956	
25	0.70	18	1974		7.0	178	1974	
26	0.97	25	1971		2.1	53	1971	
27	0.71	18	1959		T	T	1971	
28	0.18	5	1954					
29	1.18	30	1974					
30	0.94	24	1959		1.0	25	1964	
31	1.46	37	1958					
Monthly	4.09	104	1968		7.0	178	1974	

DAY	PRECIPITATION GREATEST				SNOWFALL GREATEST			
	INCHES	MM	DATE		INCHES	MM	DATE	
1	0.96	24	1976		T	T	1964	
2	0.71	18	1959					
3	0.37	9	1975					
4	0.80	20	1974		T	T	1954	
5	0.83	21	1968					
6	1.35	34	1971					
7	1.22	31	1964		T	T	1971	
8	0.93	24	1957		T	T	1972	
9	0.38	10	1974					
10	0.88	22	1953					
11	1.81	46	1956					
12	3.34	85	1959					
13	0.77	20	1953		T	T	1957	
14	0.74	19	1970					
15	2.78	71	1975					
16	0.55	14	1953					
17	0.39	10	1954					
18	0.21	5	1969					
19	0.18	5	1975					
20	0.31	8	1962					
21	0.24	6	1959					
22	0.76	19	1972					
23	0.40	10	1970					
24	0.67	17	1972					
25	0.71	18	1975					
26	0.96	24	1970					
27	1.13	29	1973					
28	1.50	38	1958					
29	0.88	22	1962					
30	2.19	56	1953					
31								
Monthly	3.34	85	1959		T	T	1972*	

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

2

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

1945-1949 1952-1977  
YEARS

## DAILY EXTREME AMOUNTS

MAY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.57	14	1966			
2	0.88	22	1966			
3	1.42	36	1972			
4	1.91	49	1970			
5	0.73	19	1958			
6	1.18	30	1958			
7	0.78	20	1977			
8	0.94	24	1971			
9	0.55	14	1974			
10	0.11	3	1952			
11	1.58	40	1961			
12	0.60	15	1964			
13	0.75	19	1971			
14	0.83	21	1954			
15	1.32	34	1954			
16	0.77	20	1953			
17	1.15	29	1976			
18	0.85	22	1953			
19	1.01	26	1953			
20	0.95	24	1957			
21	0.93	24	1956			
22	0.70	18	1953			
23	0.66	17	1956			
24	1.30	33	1977			
25	2.13	54	1965			
26	1.12	28	1970			
27	1.27	32	1969			
28	1.30	33	1973			
29	3.16	80	1963			
30	1.16	29	1972*			
31	2.44	62	1952			
Monthly	3.16	80	1963			

JUNE  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.66	17	1936			
2	4.80	122	1959			
3	1.37	35	1963			
4	2.11	54	1967			
5	2.72	69	1957			
6	1.22	31	1972			
7	1.08	27	1955			
8	0.84	21	1953			
9	1.09	28	1977			
10	0.59	15	1966			
11	0.24	6	1963			
12	1.04	26	1958			
13	1.08	27	1962			
14	0.99	25	1969			
15	1.48	38	1965			
16	0.98	25	1965			
17	0.83	21	1968			
18	1.15	29	1973			
19	0.89	23	1955			
20	1.72	44	1974			
21	1.20	30	1961			
22	0.46	12	1973			
23	1.14	29	1974			
24	0.89	23	1967			
25	1.32	34	1970			
26	0.97	25	1961			
27	1.03	26	1973			
28	0.55	14	1953			
29	1.16	29	1973			
30	0.77	20	1962			
31						
Monthly	4.80	122	1959			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

5724 DAILY AMOUNTS MAR 1978

13769 STATION

OCEANA, VIRGINIA

STATION NAME

1945-1949 1952-1977

YEARS

JULY

MONTH

AUGUST

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.05	27	1969			
2	2.14	54	1959			
3	1.17	30	1968			
4	1.25	32	1962			
5	1.26	32	1975			
6	0.92	23	1956			
7	0.58	15	1956			
8	0.92	23	1975			
9	3.85	98	1976			
10	1.65	42	1970			
11	1.48	38	1965			
12	1.34	34	1955			
13	0.78	20	1972			
14	1.01	25	1967			
15	1.54	39	1973			
16	1.99	51	1970			
17	0.27	7	1975			
18	0.98	25	1964			
19	2.18	55	1953			
20	1.12	28	1968			
21	1.70	43	1969			
22	1.01	26	1954			
23	1.50	38	1957			
24	1.35	34	1957			
25	1.15	29	1973			
26	3.18	81	1974			
27	1.95	50	1969			
28	1.77	45	1958			
29	1.96	50	1960			
30	3.01	76	1966			
31	1.39	35	1962			
Monthly	3.85	98	1976			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.03	26	1959			
2	0.75	19	1954			
3	1.23	31	1973			
4	1.09	28	1969			
5	2.21	56	1960			
6	2.02	51	1960			
7	2.00	51	1952			
8	0.90	23	1959			
9	2.28	58	1976			
10	1.67	42	1976			
11	1.90	48	1967			
12	3.85	98	1955			
13	4.73	120	1953			
14	6.05	154	1953			
15	1.46	37	1957			
16	0.20	5	1960			
17	4.14	105	1953			
18	1.28	33	1959			
19	5.09	129	1957			
20	2.01	51	1958			
21	1.96	50	1967			
22	0.68	17	1958			
23	1.20	30	1967			
24	0.18	5	1974			
25	1.88	48	1958			
26	2.83	72	1958			
27	3.23	82	1971			
28	0.99	25	1972			
29	1.00	25	1954			
30	1.64	42	1954			
31	9.84	250	1964			
Monthly	9.84	250	1964			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

OCEANA, VIRGINIA

STATION

STATION NAME

1945-1949 1952-1977

YEARS

# DAILY EXTREME AMOUNTS

SEPTEMBER

MONTH

OCTOBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	3.36	98	1964			
2	4.09	104	1972			
3	1.46	37	1955			
4	0.74	19	1970			
5	1.07	27	1972			
6	1.68	43	1974			
7	0.60	15	1968			
8	1.42	36	1969			
9	0.64	16	1957			
10	2.71	69	1967			
11	1.14	29	1971			
12	2.62	72	1960			
13	3.41	87	1964			
14	0.65	17	1973			
15	2.83	72	1963			
16	1.62	41	1967			
17	5.01	127	1957			
18	0.63	16	1972			
19	2.01	51	1955			
20	1.49	38	1969			
21	1.09	43	1972			
22	0.73	19	1974			
23	0.36	9	1975			
24	0.35	9	1965			
25	0.17	4	1969			
26	1.41	36	1956			
27	3.93	100	1953			
28	2.34	59	1959			
29	1.15	29	1957			
30	3.75	95	1971			
31						
Monthly	5.01	127	1957			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	2.93	74	1971			
2	2.00	51	1961			
3	5.97	152	1962			
4	1.56	40	1964			
5	1.08	27	1964			
6	1.43	36	1972			
7	1.45	37	1968			
8	0.74	19	1969			
9	1.49	38	1959			
10	1.66	42	1971			
11	0.91	23	1952			
12	0.66	17	1977			
13	1.11	28	1977			
14	1.39	35	1959			
15	1.37	35	1970			
16	0.72	18	1974			
17	2.34	59	1956			
18	2.13	54	1957			
19	1.09	28	1968			
20	1.56	40	1961			
21	3.62	92	1958			
22	0.70	18	1956			
23	1.72	44	1971			
24	1.75	44	1959			
25	0.45	11	1967			
26	0.83	21	1977			
27	0.48	12	1969			
28	0.86	22	1972			
29	0.60	15	1977*			
30	2.72	69	1956			
31	0.16	4	1976			
Monthly	5.97	152	1962			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

13769

OCEANA, VIRGINIA

1945-1949 1952-1977

STATION

STATION NAME

YEARS

NOVEMBER

DECEMBER

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	3.09	78	1957			
2	0.96	24	1969			
3	0.89	23	1962			
4	0.53	13	1977			
5	1.53	39	1953	T	T	1953
6	2.80	71	1977	T	T	1953
7	0.94	24	1959	T	T	1953
8	1.18	30	1972	T	T	1976
9	0.90	23	1962			
10	0.74	19	1968			
11	1.76	45	1970			
12	0.83	21	1968	T	T	1976
13	0.81	21	1975			
14	0.37	9	1972			
15	0.70	18	1976			
16	0.16	4	1968	T	T	1969
17	0.53	13	1972			
18	0.34	9	1960	T	T	1959
19	0.65	17	1955	T	T	1961
20	1.08	27	1952			
21	4.18	106	1952			
22	0.54	14	1962	T	T	1972
23	1.36	35	1977			
24	0.45	11	1967	T	T	1956
25	1.11	28	1957			
26	0.90	23	1958	T	T	1977
27	0.19	5	1971			
28	0.60	15	1959	T	T	1953
29	1.70	43	1963	T	T	1966
30	0.75	19	1957	T	T	1967*
31						
Monthly	4.18	106	1952	T	T	1977*

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.86	22	1974			
2	1.27	32	1952			
3	0.98	25	1967	T	T	1966
4	0.57	14	1955	T	T	1957
5	0.25	6	1964			
6	0.62	16	1962	4.0	102	1954
7	0.79	20	1975	3.5	89	1968
8	1.08	27	1973	0.3	8	1968
9	2.06	52	1957	T	T	1974
10	1.31	33	1969			
11	1.21	31	1960	8.0	203	1958
12	0.82	21	1953	2.0	51	1958
13	2.03	52	1966	T	T	1966
14	1.60	41	1977	2.2	56	1958
15	2.09	53	1956	T	T	1968*
16	1.80	46	1970	T	T	1969
17	1.42	36	1961	1.0	25	1973
18	1.78	45	1977	T	T	1971*
19	0.46	12	1959	T	T	1974*
20	0.75	19	1951	T	T	1962*
21	0.85	22	1970	3.0	76	1962
22	0.58	15	1969	T	T	1975
23	0.90	23	1963	0.4	10	1967
24	0.37	9	1956	T	T	1966*
25	0.57	14	1962			
26	1.93	49	1964	T	T	1970
27	0.71	18	1964	T	T	1956
28	2.09	53	1958	T	T	1977*
29	0.53	13	1962	T	T	1956
30	0.65	17	1977	T	T	1955
31	1.98	50	1952			
Monthly	2.09	53	1958*	8.0	203	1958

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS





NWSD, Federal Building  
Asheville, N. C.

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

**NOTE:** According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from 3-hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

- a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: **INSTRUMENT CLASS:** Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

2

## EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

13769 OCEANA, VIRGINIA 45-47, 49, 51-77  
STATION NAME YEARS

## DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45			SW 63NNW 55NW	56NW	71SSW 58								
46													
47													
48													
49													
50													
51													
52	NNW 45W	44NNW 50WSW 45W	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									NNW 50
53	WSW 48WSW 47SW 39W	47NW 54SSW 26W 38NNW 72	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									
54	NNW 40W	54NNW 61NNW 50SSW 36NE 47E 45N 39NNW 46N 41	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									NNW 61
55	NNW 40W	54NNW 61NNW 50SSW 36NE 47E 45N 39NNW 46N 41	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									NNW 61
56	N 51W	52W 52NNW 58NNW 46NNW 36W 55NNW 44ENE 30NE 44NW 42NW 39	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									NNW 58
57	W 54N	40NNW 47NNW 50SW 40E 54ENE 52WSW 49NE 39NNW 44	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									W 54
58	NNW 40NW 44W 49NE 40NNW 52NNW 52SW 40WSW 38NE 50E 26S 27N 34N 33	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 52
59	SW 46WSW 43WSW 44W 33WSW 37N 31NW 23N 44NE 23SE 36SW 39ENE 44	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 50
60	NNE 40WSW 48SE 38NNW 35NNW 42NNW 33SE 39NW 32NNW 78N 33NNE 31NW 43	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 78
61	NNW 40SW 42E 31NW 36NNW 36	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 78
62	SSW 39NNW 36	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 78
63	NNW 39N	39SSW 39NNW 35N 44NE 35NE 30NW 41NE 31NW 41E 36NW 37	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34									N 44
64	W 54WSW 40SSW 40WSW 37NE 28NW 52NNW 27ENE 30NE 42ENE 43NNW 35NNW 37	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										W 54
65	NNW 38SSW 43SSW 34W 33WSW 37N 31NW 23N 44NE 23SE 36SW 39ENE 44	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										N 44
66	N 40SW 53W 38W 34N 40NNW 34NE 30SW 26SW 39NW 32SSW 39ENE 44	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										SW 53
67	W 34N 38NNW 46NW 36SW 39NW 28NW 41WSW 43N 41SW 39N 32NW 34	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 46
68	E 33N 34SW 35N 34ENE 39NW 36NW 31WSW 38E 32N 33NE 43SW 41	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NE 43
69	ENE 36NW 38NE 45NW 36NE 35S 26NE 28N 32NE 27NE 27ENE 36NW 36	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										NNW 45
70	NW 35N 38NW 30SSW 42N 24NNW 35SW 27NW 29N 29NNW 26WSW 33NNW 39	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										SSW 42
71	WSW 3918 3725 4105 5027 3434 2729 3725 3336 3607 3313 2729 38	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										OS 50
72	34 2924 3520 3034 3603 3029 3726 2422 2702 3536 3330 3328 37	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										29 37
73	15 3636 3923 3925 3121 3411 2401 2030 4432 2502 2720 3405 37	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										30 44
74	22 2626 3619 3425 4830 3431 3921 2927 3601 2333 2831 3212 36	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										25 48
75	25 3723 3315 3827 5129 3102 2721 2918 2034 2334 3002 3519 28	40SW 50WSW 42WSW 33	46NNW 42SE 44NW 34										27 51
MEAN													
S. D.													
TOTAL OBS.													

5723 Extreme Values Jan 1969

## EXTREME VALUES

**SURFACE WINDS**  
(FROM DAILY OBSERVATIONS)

13769	OCEANA, VIRGINIA	45-47, 49,	51-77
STATION	STATION NAME	YEARS	

## DAILY PEAK GUSTS IN KNOTS

[illegible]



## EXTREME VALUES

45-47, 49, 51-77

YEARS

**SURFACE WINDS**  
**FROM DAILY OBSERVATIONS)**

197131

DAILY PEAK GUSTS IN KNOTS  
/BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH/

5723 Extreme Values Jan 1969

[illegible]

NAVWEASERVCOM

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.9	3.9	2.6								9.7	8.4
NNE		.6	1.3									1.9	8.0
NE				.6								.6	11.0
ENE	.6	1.3										1.9	3.3
E	1.3											1.3	2.5
ESE		1.3	1.3									2.6	6.8
SE												.6	11.0
SSE	2.6	.6	.6	.6								4.5	5.0
S	2.6	.6	.6	.6								4.5	5.1
SSW	.6	4.5	1.9	2.6								9.7	7.5
SW	2.6	2.6	3.2	.6								9.0	6.3
WSW	2.6	1.3	3.2	.6								7.7	5.7
W	3.2	.6	1.9	.6								6.5	5.3
WNW	.6	1.9	1.3	2.6								6.5	8.6
NW	.6	1.9	1.9	1.9								6.5	8.1
NNW	.6		1.3	3.9								5.8	10.6
VARBL													
CALM												20.6	
	19.4	19.4	22.6	18.1								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

06  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.7	3.2	2.6								10.3	7.5
NNE	.6	.0	1.9									3.2	6.8
NE			.6									.6	10.0
ENE		.6										.6	6.0
E	.6											.6	2.0
ESE			.0									.6	8.0
SE	.6	1.7	1.3									3.2	5.8
SSE	2.6											2.6	3.0
S	1.3	1.7	1.3	.6								5.2	6.1
SSW	.6	2.6	1.3									4.5	6.1
SW	3.9	2.6	2.6	1.3								10.3	5.8
WSW	4.5	3.9	.6	2.6								11.6	5.5
W	1.3	3.2	1.9	.6								7.1	6.4
WNW	.6	1.9	1.9									4.5	6.4
NW		2.6	2.6	1.9								4.5	9.7
NNW		1.9	3.9	3.2								11.0	8.8
VARBL													
CALM												19.4	
	19.4	22.6	23.8	12.9								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	3.9	4.5	1.3								12.3	6.6
NNE	.6	.6	3.9	.6								5.8	7.9
NE			.6									.6	9.0
ENE		.6	.6									1.3	7.0
E	.6	1.3										1.9	3.3
ESE		.6										.6	4.0
SE		.6	1.9									2.6	7.3
SSE	2.6	1.9										4.5	3.7
S	1.9	.6	.6	.6								3.9	5.2
SSW	1.3	3.2	.6	.6								5.8	6.0
SW	3.2	5.2	2.6	1.3								12.3	5.6
WSW	2.6	3.2	1.9									7.7	4.9
W	1.9	.6	4.5									7.1	6.5
WNW	1.3	1.9		.6								3.9	6.0
NW	.6	.6	1.3	1.3								3.9	8.7
NNW		1.9	2.6	1.3	.6							9.7	9.7
VARBL													
CALM												16.1	
	19.4	27.1	29.0	7.7	.6							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		6.2	5.8	3.2	.6							16.1	8.6
NNE	1.3	1.3	1.3	.6								4.5	6.3
NE			2.6	.6								3.2	8.2
ENE	.6	.6										1.3	3.5
E	2.6	.6	.6	.6								4.5	5.0
ESE	.6											.6	2.0
SE		.6	.6									1.3	7.0
SSE	.6		1.3	.6								2.6	8.0
S	2.6	1.3	3.9	1.3								9.0	6.2
SSW		.6	3.9	1.3								5.8	8.7
SW	1.9	5.2	2.6									9.7	5.7
WSW	.6	1.9	2.6	1.9								7.1	7.7
W	.6	2.6	4.2	1.9								9.7	8.1
WNW			2.6	.6								3.2	9.8
NW	1.9	.6	4.2	.6								7.7	7.2
NNW	.6	1.9	3.2	2.6	.6							11.0	8.9
VARBL													
CALM												2.6	
	14.2	23.9	41.9	16.1	1.3							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.9	6.3	4.5								14.8	8.8
NNE	.6		1.9	1.3								3.9	8.7
NE	.6	1.9	.6									3.2	4.6
ENE	1.3	.6	1.3									3.2	5.0
E		1.9	.6									2.6	5.8
ESE	.6	1.3	.6	.6								3.2	6.0
SE		1.3	.6									1.9	7.0
SSE	1.9	1.9	2.6	.6								5.2	7.8
S	1.9	.6	1.9	.6								5.2	6.8
SSW		1.3	1.3	1.3								2.6	10.3
SW	.6	1.3	3.2	2.6								7.7	9.1
WSW		.6	9.3	3.9								11.0	9.9
W		1.3	4.2	2.6	.6							9.0	10.2
WNW		1.3	1.3	1.3								3.9	8.3
NW	.6	1.3	1.3	1.3								3.2	9.6
NNW	1.3	5.2	9.0	1.9	.6							18.1	8.0
VARBL													
CALM												1.3	
	9.7	21.3	43.9	22.6	1.3							100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	3.2	2.6								11.0	8.1
NNE	.6	1.4	1.9									4.5	6.3
NE	.6	.6	1.3	.6								2.6	8.3
ENE	.6	2.6	.6									3.9	5.0
E	.6	3.2	1.3									5.8	4.8
ESE	.6	1.3	.6									2.6	5.3
SE	.6	1.3	.6	.6								2.6	7.8
SSE	.6	1.3	1.3	.6								3.9	6.8
S	.6	.6	1.9	1.3								4.5	8.0
SSW		1.3	2.6	1.9								5.8	8.2
SW		2.6	.6	3.2								6.5	8.8
WSW	.6	1.3	4.5	1.3								7.7	7.9
W	.6	.6	7.1	3.2	.6							12.3	10.1
WNW	1.3	.6	1.3	1.3								4.5	7.3
NW		1.9	2.6	.6								5.2	7.3
NNW	.6	5.8	3.2	2.6	.6							12.3	7.6
VARBL													
CALM												4.5	
	7.7	29.7	30.8	20.0	1.3							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

125

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	3.2	1.3								7.7	8.3
NNE		1.3	1.9									3.2	7.6
NE	1.3		1.3	.6								3.2	6.0
ENE	1.3	1.9										3.2	3.4
E	1.9	1.3										3.2	3.4
ESE	1.3	.6	.6									2.6	5.0
SE	.6	1.9	.6									3.2	5.4
SSE		.6	1.3									1.9	7.3
S	1.9	5.8	.6									8.4	4.8
SSW		3.2	1.3									4.5	6.0
SW	3.9	.6	.6	3.9								9.0	7.0
WSW	1.9	3.9	.6	.6								7.1	5.2
W	1.9	1.3	1.3	.6								5.2	6.1
WNW		2.6	1.9									4.5	6.3
NW	2.6	.6	1.9	.6								5.8	5.4
NNW	1.3	1.9	1.3	1.9								6.5	7.4
VARBL													
CALM												20.6	
	20.6	30.3	18.7	9.7								100.0	4.8

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	4.5	1.3								7.7	8.7
NNE	.6	.6	1.3									2.6	6.8
NE		.6	1.3	.6								2.6	9.0
ENE	.6											.6	3.0
E		1.3	.6									1.9	5.7
ESE	.6		.6									1.3	4.5
SE	1.9		.6									2.6	3.5
SSE	1.9	1.9	1.9									5.8	5.3
S	3.2	3.9	.6	.6								8.4	5.0
SSW	1.3	3.9	1.3	1.3								7.7	6.6
SW	.6	3.2	.6									4.3	4.9
WSW	2.6	3.9	2.9	1.3								10.3	6.2
W	4.5		3.2	.6								8.4	5.6
WNW	.6	1.3	.6									2.6	5.0
NW	1.3	1.9	1.3	.6								5.2	7.0
NNW	1.3		3.9	3.2	1.3							9.7	10.7
VARBL													
CALM												18.1	
	21.3	24.5	25.2	9.7	1.3							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JAN  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.9	4.6	2.4	.1							11.2	8.1
NNE	.6	.9	1.9	.3								3.7	7.3
NE	.2	.4	1.0	.4								2.1	7.4
ENE	.6	1.0	.3									2.0	4.5
E	1.0	1.3	.4	.1								2.7	4.5
ESE	.5	.6	.6	.1								1.8	5.5
SE	.4	.9	.8	.2								2.3	6.3
SSE	1.4	1.0	1.1	.3								3.9	5.8
S	2.0	1.8	1.3	.7								6.1	5.8
SSW	.5	2.4	1.8	1.1								5.8	7.3
SW	2.1	2.9	2.0	1.6								8.6	6.6
WSW	1.9	2.3	2.8	1.5								8.8	6.7
W	1.8	1.3	3.6	1.3	.2							8.1	7.6
WNW	.6	1.5	1.4	.8								4.2	7.3
NW	1.0	1.0	2.2	1.1								5.2	7.7
NNW	.7	2.3	4.4	2.6	.5							10.5	8.8
VARBL													
CALM												12.9	
	16.5	24.6	30.2	14.6	.7							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1240

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	.7	2.0	2.8		.7						10.6	10.0
NNE		.7	1.4	.7								2.8	9.0
NE	.7		1.4	.7								2.8	9.5
ENE		.7	.7									1.4	6.5
E	1.4			.7								2.1	5.3
ESE													
SE			1.4									1.4	9.0
SSE	1.4	.7										2.1	3.0
S	4.3	2.8	2.8									9.9	4.8
SSW	1.4	4.3	5.7	2.1								13.5	7.2
SW	4.3	2.1	.7	1.4								8.5	5.4
WSW	2.8	4.3	2.1	2.1								11.3	6.6
W	.7	1.4										2.1	4.0
WNW			2.1	1.4								3.5	10.2
NW		2.1	2.1	1.4								5.7	8.8
NNW		.7		1.4	1.4							3.5	13.2
VARBL													
CALM												18.4	
	18.4	20.9	22.2	14.9	1.4	.7						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.1	5.7	2.1	.7							12.8	7.9
NNE		.7	2.8	1.4	.7							5.7	10.3
NE		.7	1.4									2.1	8.0
ENE		.7										.7	6.0
E	.7	.7										1.4	3.5
ESE		.7										.7	6.0
SE	.7		.7									1.4	5.0
SSE	1.4	.7	.7									2.8	3.8
S	2.8	3.5	1.4									7.8	4.6
SSW	1.4	2.8	.7	2.1								7.1	7.1
SW	7.8	4.6	2.8	.7	.7							16.3	5.4
WSW	2.1	2.8	2.1	.7								7.8	5.5
W	1.4	2.1	.7	1.4								5.7	6.4
WNW			2.1									2.1	8.0
NW		.7	1.4	3.5								5.7	11.3
NNW			.7	1.4	.7							2.8	14.3
VARBL													
CALM												17.0	
	20.5	22.7	23.4	13.5	2.8							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.2	2.5	1.4	.7							9.9	8.3
NNE		.7	1.4	2.1	.7							5.0	11.1
NE		.7	.7	.7								2.1	8.7
ENE													
E	.7		.7									1.4	5.5
ESE													
SE		1.4	.7									2.1	5.7
SSE	.7	1.4	1.4									3.5	5.8
S	1.4	1.4	1.4	.7								5.0	6.4
SSW	.7	5.7	.7	1.4								9.5	6.4
SW	3.5	5.0	1.4	1.4								11.3	5.6
WSW	2.1	2.1	2.1	.7								7.1	6.0
W	1.4	3.2	2.1	.7								7.8	6.3
WNW			1.4									1.4	8.5
NW		.7	2.1	2.8								5.7	10.8
NNW		2.8	2.1	5.0								9.9	9.4
VARBL													
CALM												19.1	
	11.3	29.1	22.0	17.0	1.4							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

141

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

10

HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.3	4.3	4.3		.7						14.2	9.3
NNE	.7	.7	2.1	1.4	.7							3.7	9.8
NE	.7		1.4	.7								2.8	8.3
ENE		1.4	.7									2.1	6.3
E		.7	.7									1.4	7.5
ESE		1.4										1.4	4.0
SE	1.4	.7	2.1	.7								5.0	6.9
SSE		2.8	.7	.7								4.3	6.5
S	2.1	1.4	2.1	1.4								7.1	6.6
SSW		1.4	2.8	2.1								6.4	9.8
SW	.7		7.1	2.1		.7						10.6	10.0
WSW	1.4	2.1	3.5	.7								7.8	6.8
W		.7	2.8	2.8	.7							7.1	11.3
WNW	.7	1.4	4.3	1.4								7.8	8.3
NW			1.4	2.8	.7							5.0	13.1
NNW		.7	2.1	5.7								8.5	11.3
VARBL													
CALM												2.8	
	8.5	19.9	38.3	27.0	2.1	1.4						100.0	8.8

TOTAL NUMBER OF OBSERVATIONS

141

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	2.0	3.5	1.4							11.3	10.6
NNE	.7	.7	2.0		.7							5.0	6.3
NE	.7	.7	.7									.7	8.0
ENE	.7	2.1	.7	.7								4.3	6.7
E	.7	2.0	.7									4.3	4.8
ESE	.7	1.4	.7									2.8	5.5
SE		3.5	2.0									6.4	6.3
SSE			2.1	1.4								3.5	9.2
S	.7	1.4	1.4	2.0								6.4	9.7
SSW		.7	2.1	3.5	.7							7.1	11.0
SW	.7		.7	4.3		.7						6.4	11.9
WSW	1.4		1.4	3.5	.7							7.1	10.5
W	.7	1.4	5.0	2.1								9.2	8.3
WNW		.7	2.1									2.8	8.5
NW	.7	1.4	2.1	2.8								7.1	8.1
NNW	.7	2.0	2.0	7.8								14.2	9.9
VARBL													
CALM												1.4	
	8.5	19.2	33.3	32.6	3.5	.7						100.0	8.9

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.8	2.8	4.3	2.1	.7	.7						13.5	8.4
NNE		.7	1.4	1.4								3.5	9.6
NE		1.4	.7									2.1	6.0
ENE	.7	2.1	.7									3.5	4.6
E	.7	3.5	2.8									7.1	5.6
ESE		2.1	3.5									5.7	7.0
SE		3.5	2.8									6.4	6.1
SSE		2.1	1.4	.7								4.3	7.7
S			3.5	2.1								5.7	10.4
SSW		.7	4.3	2.1	.7							7.8	11.0
SW		2.1	2.8	2.1								7.1	9.0
WSW			2.1	.7								2.8	9.3
W	.7	2.1	2.7	1.4								9.9	7.2
WNW			2.0	.7								5.7	9.0
NW		.7	1.4	2.1								4.3	9.7
NNW	.7	2.8	4.3	.7	.7							9.2	8.5
VARBL													
CALM												1.4	
	5.7	27.0	46.8	16.3	2.1	.7						100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.1	2.1	1.4	3.5	2.1							11.3	9.9
NNE	2.1	.7	1.4	.7								5.0	6.1
NE		.7	.7									1.4	8.0
ENE	.7		.7									1.4	5.0
E				.7								.7	12.0
ESE	1.4											1.4	2.0
SE	1.4	3.5	.7									5.7	4.3
SSE	7.8	.7	1.4									9.9	3.1
S	1.4	7.1	4.3	2.1								14.9	7.0
SSW		3.5	2.1	.7								6.4	6.8
SW	1.4	1.4	2.1									5.0	6.3
WSW	2.8	.7										3.5	3.2
W	2.1	1.4										3.5	3.0
WNW	2.8	1.4	.7	.7								5.7	4.9
NW	.7		.7									1.4	6.0
NNW	.7	.7	.7	1.4								3.5	8.4
VARBL													
CALM												19.1	
	27.7	24.1	17.0	9.9	2.1							100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.1	2.1	4.3	.7							9.9	9.8
NNE	1.4			1.4								2.8	7.0
NE	.7	1.4	.7	.7								3.5	6.6
ENE	1.4											1.4	3.0
E				.7								.7	14.0
ESE	1.4											1.4	2.5
SE		2.1										2.1	5.3
SSE	3.5	1.4	2.1									7.1	4.6
S	5.0	5.7	6.4									17.0	5.3
SSW	2.1	1.4	2.8	2.1								8.5	7.7
SW	2.8	1.4	.7	1.4								6.4	5.9
WSW	2.1	.7	1.4	.7								5.0	6.1
W	2.1		1.4									3.5	4.6
WNW	.7	.7										1.4	3.0
NW	.7		.7	2.1	1.4							5.0	11.9
NNW		1.4	2.1	.7								4.3	8.3
VARBL													
CALM												19.9	
	24.8	18.4	20.6	14.2	2.1							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

141

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.3	3.9	3.0	.6	.3						11.7	9.2
NNE	.6	.6	1.7	1.2	.4							4.4	9.0
NE	.3	.6	1.0	.4								2.2	7.8
ENE	.4	.9	.4	.1								1.9	5.6
E	.5	1.0	.6	.3								2.4	5.9
ESE	.4	.7	.3									1.7	5.3
SE	.4	1.9	1.4	.1								3.8	5.9
SSE	1.9	1.2	1.2	.4								4.7	5.2
S	2.2	2.9	2.9	1.2								9.2	6.5
SSW	.7	2.6	2.7	2.0	.2							8.2	8.2
SW	2.7	2.0	2.3	1.7	.1	.2						9.0	7.1
WSW	1.9	1.6	1.9	1.2	.1							6.6	6.8
W	1.2	1.6	2.2	1.1	.1							6.1	7.1
WNW	.5	.5	2.2	.5								3.8	7.8
NW	.3	.7	1.5	2.2	.3							5.0	10.2
NNW	.3	1.5	1.9	3.0	.4							7.0	10.0
VARBL													
CALM												12.4	
	15.7	22.7	29.4	18.2	2.2	.4						100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

1128

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.9	3.2	1.3								8.4	7.0
NNE	1.3		1.3	.6								3.2	7.6
NE		1.9	.6	.6								3.2	7.0
ENE	.6			.6								1.3	8.5
E	1.9	1.3										3.2	3.8
ESE	1.3	.6										1.9	2.3
SE	.6	3.2		.6								4.5	5.9
SSE	.6	1.9	.6									3.2	4.6
S	3.2	1.9	3.2	1.3								9.7	6.5
SSW	1.9	5.8	3.2	2.6								13.5	7.0
SW	3.9	1.3	.6	.6								6.5	4.6
WSW	.6	2.0		1.9								5.2	7.6
W		1.3	3.2	2.6								7.1	9.5
WNW			1.9									1.9	8.3
NW	.6	.6	1.3	1.9								4.5	9.4
NNW	1.3	1.3	2.6	1.9	.6							7.7	8.8
VARBL													
CALM												14.8	
	20.0	25.3	21.9	16.8	.6							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

2

12295 52101

000000

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		2.0	2.6								9.0	9.2
NNE	.6	3.4	1.3	1.3								6.5	7.5
NE		1.9	1.3									3.2	6.4
ENE	1.3	.6	.6									2.6	4.3
E	1.3	3.4										4.5	4.4
ESE	.6		.6									1.3	5.5
SE				.6								.6	12.0
SSE	1.3	1.9	1.3									4.5	4.7
S	1.3	1.9		.6								3.9	5.7
SSW		5.8	5.8	1.3								12.9	7.5
SW	1.9	2.6	1.3	1.3								7.1	5.8
WSW	1.9	1.9	.6	.6								4.5	5.9
W	1.3	1.9	2.0	.6								6.5	6.5
WNW		.6	1.3									1.9	7.0
NW	1.3	.6	.6	1.3								3.9	6.7
NNW	1.9	1.3	1.3	3.2	.6							8.4	9.2
VARBL													
CALM												18.7	
	15.5	27.1	24.2	13.5	.6							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

0000

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

07

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.2	6.2	2.6								12.3	8.8
NNE		1.3	2.6	1.3								5.2	8.3
NE	.6	1.3	.6	.6								3.2	6.4
ENE	1.3	1.3	1.3	.6								4.5	6.6
E	1.3	.6	1.9	.6								4.5	6.3
ESE		.6										.6	4.0
SE	1.3	.6		.6								3.2	5.4
SSE	.6	.6	2.6									3.9	6.7
S	1.3	1.3	4.6	.6								5.8	6.8
SSW	1.9	1.9	2.6	3.2								9.7	7.7
SW	3.2	1.9	2.6									7.7	5.0
WSW	1.3	1.9	1.9	1.3								6.5	7.1
W	1.9	1.3	1.3	1.3								4.5	6.7
WNW	.6	.6	.6	.6								2.6	6.8
NW	.6	.6	2.6		.6							1.9	7.7
NNW	1.3	.6		2.6								7.1	8.7
VARBL													
CALM												16.8	
	18.1	18.7	29.7	16.1	.6							100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.2	5.2	3.9								12.9	8.8
NNE	1.9	1.3	1.9									5.2	5.8
NE	.6	.6	3.2	1.3								5.2	8.6
ENE	.6	.6	1.9	.6								3.9	7.3
E	.6	1.9	1.9	.6								5.2	7.4
ESE		.6	1.9									2.6	6.8
SE	1.3	1.9	.6									3.9	4.8
SSE			1.9	.6								1.9	9.3
S	.6	2.6	2.6	1.9								7.7	8.2
SSW	1.3	2.6	2.6	2.6	.6							9.7	8.5
SW	.6	1.3	1.9	3.9	.6							8.4	10.0
WSW		.6		1.3	.6							2.6	11.5
W		1.9	1.9	2.6								5.8	9.8
WNW			1.3	3.2								4.5	11.9
NW	1.3	.6	3.9	3.9								9.7	8.9
NNW	.6	2.6	1.9	2.6	.6							8.4	8.4
VARBL													
CALM												2.6	
	9.7	22.6	33.5	29.0	2.6							100.0	8.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		5.2	5.8	2.6	1.3							14.8	8.9
NNE		2.6	.6	2.6	.6							6.5	9.2
NE		.6										.6	4.0
ENE		1.3	2.6									3.9	7.0
E	2.6	2.6	3.2	1.3								9.7	6.4
ESE		1.3	2.6									3.9	8.0
SE		1.3	2.6		.6							4.5	8.6
SSE			.6	1.3								1.9	11.0
S	.6	2.6	2.6	.6								6.5	7.5
SSW		.6	2.6	2.6	1.9							7.7	12.7
SW		.6	1.9	1.9								4.5	11.1
WSW		2.6	2.6	3.2	.6	.6						9.7	11.1
W			2.6	1.9	1.3							5.8	12.7
WNW		.6	1.9	1.9								4.5	10.1
NW	.6	.6		3.2								4.5	10.7
NNW		2.6	1.9	3.9								8.4	8.8
VARBL													
CALM												2.6	
	3.9	25.2	34.4	27.1	6.5	.6						100.0	9.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR  
MONTH

16

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	2.6	2.6								8.4	8.6
NNE	.6	1.3	1.3	1.3	.6							5.2	9.4
NE	.6	2.6	2.6									5.8	6.1
ENE	.6		3.2									3.9	6.7
E	.6	5.2	.6	1.3								7.7	6.3
ESE		3.2	5.8									9.0	7.1
SE		3.2	3.2	1.3								7.7	7.4
SSE		1.3	1.9									3.2	8.0
S	.6	.6	3.9	.6								5.8	8.0
SSW		1.3	1.9	3.2								6.5	10.5
SW	.6	.6	3.2	3.2	1.3							9.0	10.8
WSW			1.3	1.9	.6							3.9	12.2
W		1.3	1.9	2.6	.6							6.5	10.0
WNW			.6	3.9	1.3							5.8	13.6
NW		1.3	2.6	1.3								5.2	9.1
NNW		3.9	1.9	.6								6.5	6.7
VARBL													
CALM												.0	
	4.5	28.4	28.7	23.9	4.5							100.0	8.7

TOTAL NUMBER OF OBSERVATIONS

155

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13769 STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR MONTH

ALL WEATHER CLASS

19 HOURS (U.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.9	3.9	.6	.6							7.7	8.6
NNE	.6	.6	2.6	1.3								5.2	9.0
NE	1.3	2.6	2.6									6.5	6.0
ENE	2.6	1.3										3.9	3.0
E	5.2	1.9	.6	1.3								9.0	4.4
ESE	3.2	2.6										5.8	3.6
SE	1.9	2.6	1.3									5.8	4.9
SSE	3.2	7.1	.6									11.0	4.5
S	1.3	3.2	2.6	1.3								8.4	6.9
SSW	1.3	1.3	1.9									3.2	7.0
SW	1.3	1.9	.6	1.3								5.2	6.5
WSW	1.9	1.9	1.3	.6								5.8	6.1
W	.6	.6	3.2	.6	.6							5.8	8.6
WNW	.6	1.3	1.3									3.2	6.8
NW	1.9	.6	.6	1.3								4.5	6.3
NNW				.6								.6	11.0
VARBL													
CALM												8.4	
	26.5	31.6	23.2	8.4	1.9							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	.0	1.9	3.2								7.7	7.9
NNE	.6	.6	1.9									3.2	6.4
NE	.6	1.3	1.3	1.9								5.2	8.5
ENE	1.3	1.3										2.6	3.5
E	2.6	1.3										3.9	3.2
ESE	1.3	.0	.6									2.6	4.3
SE	2.6	1.9	.6	.6								5.8	4.7
SSE	3.9	1.9	.6									6.5	3.4
S	6.5	3.9	6.5	.6								17.4	5.7
SSW	.6	3.9	.6	1.3								6.5	6.9
SW	1.9	1.3	1.9									5.2	5.3
WSW	1.9	1.9	1.3		.6							5.8	6.2
W	.6		2.6	1.9								5.2	9.4
WNW	.6	1.3	1.3	.6	.6							4.5	8.9
NW	1.3	.6	1.3	1.3								4.5	7.6
NNW	1.9	.6		2.6								5.2	9.1
VARBL													
CALM												8.4	
	30.3	23.2	22.0	14.2	1.3							100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAR  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.E.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.3	4.4	2.4	.2							10.2	8.6
NNE	.7	1.4	1.7	1.0	.2							5.0	8.0
NE	.4	1.6	1.3	.6								4.1	7.0
ENE	1.0	.6	1.2	.2								3.3	5.6
E	2.0	2.3	1.0	.6								6.0	5.5
ESE	.8	1.2	1.5									3.5	5.7
SE	1.0	1.7	1.0	.5	.1							4.5	6.1
SSE	1.2	1.7	1.2	.2								4.5	5.5
S	1.9	2.3	3.0	1.0								8.1	6.7
SSW	.7	2.9	2.7	2.1	.3							8.7	8.3
SW	1.7	1.5	1.8	1.5	.2							6.7	7.5
WSW	1.0	1.8	1.1	1.3	.4	.1						5.5	8.4
W	.6	.9	2.3	1.8	.3							5.9	9.2
WNW	.2	.6	1.3	1.3	.2							3.6	9.9
NW	1.0	.7	1.3	1.8	.1							4.8	8.5
NNW	.9	1.6	1.5	2.3	.2							6.5	8.6
VARB													
CALM												9.0	
	16.0	25.3	28.5	18.6	2.3	.1						100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

1240



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.3	.7	1.3								5.3	6.4
NNE	.7		.7	1.3								2.7	9.0
NE	.7	1.3										2.0	4.7
ENE		.7										.7	4.0
E	.7		.7	1.3								2.7	8.0
ESE	2.0	.7										2.7	2.6
SE		1.3										1.3	4.0
SSE	.7	.7	.7	.7								2.7	7.8
S	.7	4.7	2.0	2.0								9.3	7.4
SSW	2.0	4.7	1.3	2.0								16.0	7.3
SW	12.7	3.3	2.0	1.3								19.3	4.0
WSW		.7										.7	6.0
W	.7	1.3	1.3	1.3								4.7	7.6
WNW		.7	1.3	.7								2.7	8.8
NW	1.3		2.0	1.3								4.7	8.7
NNW	.7	1.3	3.3	2.0								7.3	9.0
VARBL													
CALM												15.3	
	24.7	22.7	22.0	15.3								100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	.7	1.3								4.7	7.0
NNE	.7		.7									1.3	5.0
NE	.7	.7	1.3	.7								3.3	7.2
ENE	.7			.7								1.3	7.5
E		.7	.7									1.3	6.0
ESE													
SE			1.3									1.3	7.0
SSE	1.3		.7									2.0	4.3
S	2.0	.7	3.3	1.3								7.3	7.1
SSW	1.3	4.0	3.3	2.7	.7							12.0	6.2
SW	8.0	4.0	.7	1.3								14.0	4.4
WSW	4.0	4.0	1.3	1.3								10.7	4.9
W	.7		1.3									2.0	6.0
WNW		1.3		1.3								2.7	10.5
NW		1.3	2.0	1.3								4.7	8.9
NNW	1.3		2.7	.7	.7							5.3	8.8
VARB													
CALM												26.0	
	22.0	18.0	20.0	12.7	1.3							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.3	2.7	1.3								7.3	6.3
NNE	.7	2.0	.7		.7							4.0	7.2
NE	.7	1.3	2.0									4.0	6.5
ENE	.7		.7									1.3	5.0
E	.7	1.3		.7								2.7	6.3
ESE	.7	.7										1.3	3.5
SE	.7	.7										1.3	3.0
SSE		1.3	.7									2.0	6.3
S	1.3	.7	1.3	.7								4.0	6.3
SSW	2.0	2.7	2.7	3.3								10.7	7.9
SW	4.0	4.0	6.0	.7								14.7	5.7
WSW	4.0	6.7	2.0									12.7	4.8
W	1.3	.7	1.3	.7	.7							4.7	8.3
WNW	.7	.7	1.3									2.7	6.5
NW			1.3	2.0	.7							4.0	13.3
NNW	.7	2.0	3.3	1.3								7.3	7.2
VARBL													
CALM												15.3	
	20.0	26.0	26.0	10.7	2.0							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0	.7	1.3	.7							4.7	9.9
NNE	.7		.7									1.3	5.5
NE	1.3	2.0	4.0				.7					8.0	8.3
ENE	.7	1.3	.7									2.7	4.5
E	.7	2.7	1.3									4.7	5.1
ESE	1.3		1.3									2.7	5.3
SE			.7									.7	8.0
SSE	1.3		2.0									3.3	6.0
S	.7	2.0	3.3	1.3								7.3	7.4
SSW		2.0	2.7	2.0								6.7	8.0
SW		2.0	3.3	3.3	.7	.7						12.0	10.2
WSW	1.3	.7	4.0	2.0								8.0	7.9
W	2.0		3.3	3.3								10.7	8.8
WNW	.7		2.0	1.3	.7							4.7	10.1
NW	1.3	1.3	2.0	3.3	.7							8.7	9.9
NNW	2.0	1.3	3.3	3.3								12.0	8.4
VARBL													
CALM												2.0	
	14.0	17.3	41.3	21.3	2.7	.7	.7					100.0	8.2

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.3	3.3	.7								8.0	6.7
NNE		.7										.7	5.0
NE		2.7	1.3									4.0	6.7
ENE	1.3	3.3	1.3	.7								6.7	5.7
E	2.0	2.0	3.3									7.3	5.7
ESE		2.0	3.3	.7								6.0	7.4
SE		1.3	1.3									2.7	7.3
SSE		.7	.7	.7								2.0	8.3
S	.7	.7	2.7	2.0								6.0	9.2
SSW		1.3	3.3	2.7	1.3							10.7	10.1
SW	.7	.7	4.0	2.0	.7							8.0	9.4
WSW	.7	.7	.7	.7	.7							3.3	10.0
W		2.7	3.3	4.0	.7							12.7	9.4
WNW			2.7	2.0	.7							5.3	11.1
NW		.7	1.3	.7								2.7	10.0
NNW	1.3	3.3	3.3	2.7	1.3							14.0	8.6
VARBL													
CALM												.0	
	7.3	28.0	40.0	19.3	5.3							100.0	8.4

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

16  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		5.3	4.0	1.3								10.7	6.9
NNE	.7		2.7									3.3	6.8
NE		2.0	2.0									4.0	6.7
ENE		2.7	2.7									5.3	5.8
E	.7	4.0	4.7	.7								10.0	6.4
ESE	1.3	4.0	4.7									10.0	6.5
SE	.7	1.3	2.0	1.3								9.3	8.4
SSE		1.3	1.3	1.3								4.0	8.5
S	.7	.7	2.0	.7								4.0	7.5
SSW		1.3	4.0	2.0	.7							8.0	10.1
SW			.7	2.7								3.3	11.6
WSW			1.3	.7								2.0	9.3
W	2.0	2.0	2.0	4.0								10.0	7.8
WNW			4.0	1.3	.7	.7						6.7	12.4
NW		1.3	.7	1.3								3.3	9.0
NNW		.7	2.7	1.3	.7							5.3	10.8
VARBL													
CALM												.7	
	6.0	26.7	45.3	18.7	2.0	.7						100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

APR

MONTH

19

HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	1.3	.7								3.3	6.8
NNE			2.0									2.0	8.3
NE	.7	.7	1.3	.7								3.3	6.8
ENE	.7	.7	.7									2.0	5.0
E	6.7	4.0										10.7	3.1
ESE	4.0	2.7	.7									7.3	3.6
SE	6.7	8.0	1.3									16.0	4.1
SSE	3.3	6.7	2.7									12.7	4.8
S	.7	2.7	2.0	2.0								7.3	7.5
SSW		2.0	2.7									4.7	7.0
SW	2.7	.7	.7									4.0	4.5
WSW		.7	1.3									2.0	7.7
W	2.7	3.3	2.7	.7								9.3	6.1
WNW	.7		1.3			.7						2.7	11.0
NW	.7	.7	.7	1.3								3.3	8.6
NNW	.7		2.0	1.3								4.0	9.5
VARBL													
CALM												5.3	
	30.7	33.3	23.3	6.7		.7						100.0	5.3

TOTAL NUMBER OF OBSERVATIONS

120

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

APR  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	.7	.7								2.0	9.0
NNE		.7	1.3	.7								2.7	8.5
NE		.7	.7									1.3	6.0
ENE		1.3	.7									2.0	6.7
E	1.3	3.3	1.3									6.0	5.0
ESE	1.3			.7								2.0	5.0
SE	1.3											1.3	1.0
SSE	4.7	.7	.7									6.0	3.2
S	4.7	10.0	8.0	2.7								25.3	6.3
SSW	.7	3.3	2.7	2.0								8.7	7.8
SW	3.3	1.3	.7									5.3	3.3
WSW	3.3	.7	.7									4.7	3.1
W	1.3	.7	1.3	1.3	.7							5.3	8.0
WNW	.7		.7	.7								2.0	9.3
NW			.7	2.7	.7							4.0	14.3
NNW		.7	2.0	2.7	.7							6.0	12.0
VARBL													
CALM												15.3	
	22.7	24.0	22.0	14.0	2.0							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

APR  
MONTH

ALL  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	2.0	1.7	1.1	.1							5.7	7.1
NNE	.4	.4	1.1	.2	.1							2.2	7.3
NE	.5	1.4	1.6	.2			.1					3.7	7.0
ENE	.5	1.2	.8	.2								2.7	5.6
E	1.6	2.2	1.5	.3								5.7	5.3
ESE	1.3	1.2	1.2	.2								4.0	5.4
SE	1.2	1.0	1.3	.2								4.2	5.3
SSE	1.4	1.4	1.2	.3								4.3	5.6
S	1.4	2.7	3.1	1.6								8.8	7.1
SSW	.7	2.7	3.8	2.1	.3							9.7	8.3
SW	3.9	2.0	2.5	1.4	.2	.1						10.1	6.1
WSW	1.7	1.7	1.4	.6	.1							5.5	6.0
W	1.3	1.3	2.0	1.9	.2							7.4	8.0
WNW	.3	.2	1.7	.9	.2	.2						3.7	10.4
NW	.4	.7	1.3	1.7	.2							4.4	10.3
NNW	.8	1.4	3.1	1.9	.4							7.7	9.0
VARBL													
CALM												10.0	
	18.4	24.2	30.0	14.8	1.9	.2	.1					100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

1200

AD-A063 837

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) OCEANA, --ETC(U)  
JUL 78

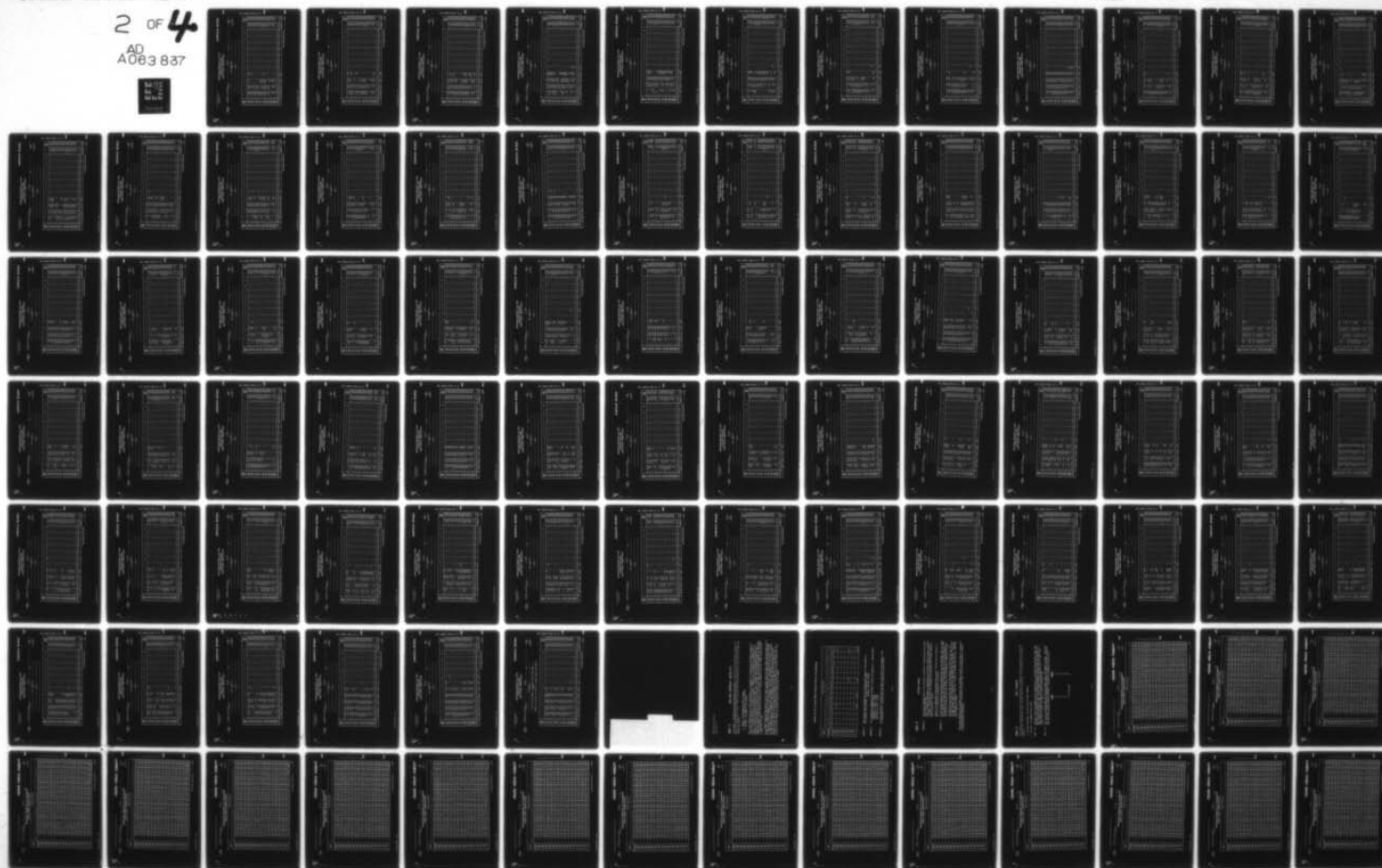
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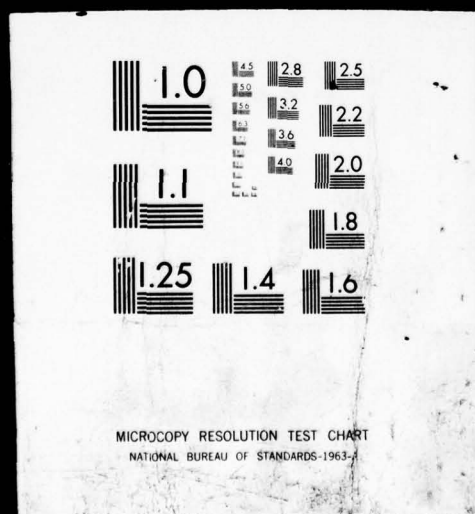
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A063 837



2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	2.6	1.9	.6								7.7	5.7
NNE	.6	1.3										1.9	4.0
NE	1.9	.6		.6								3.2	4.4
ENE	.6	.6										1.3	3.5
E	3.2	2.6										5.8	3.7
ESE	.6	1.3										1.9	4.0
SE	1.3	1.9										3.2	3.8
SSE	1.9		1.3									3.2	4.6
S	5.2	7.7	1.9									14.8	4.4
SSW	4.5	5.8	3.2	.6								14.2	5.2
SW	3.2	3.9	2.6									9.7	4.8
WSW	.6	1.3										1.9	3.0
W	2.6	1.3	.6									4.5	4.3
WNW			.6									.6	7.0
NW	.6	.6	.6									1.9	4.7
NNW	.6	.6	1.3									2.6	5.5
VARBL													
CALM												21.3	
	30.3	32.4	14.2	1.9								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

153



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.2	1.9	.6								6.5	6.7
NNE	1.3	1.3	1.9									4.5	5.3
NE	1.3	.6		1.3								3.2	7.2
ENE	1.3	1.9										3.2	4.0
E	.6	.6	.6									1.3	6.5
ESE	1.3	1.3		.6								3.2	5.0
SE	.6	.6										1.3	3.5
SSE	.6	3.9	.6									5.2	4.9
S	5.2	1.9	.6									7.7	3.4
SSW	2.6	5.6	3.2									11.6	5.4
SW	6.5	7.1	1.3									14.8	3.8
WSW	1.9	1.9										3.9	3.3
W		1.3										1.3	5.5
WNW			.6									.6	10.0
NW	1.3	.6	.6									2.6	4.3
NNW	.6	.6	1.3	1.3								3.9	8.5
VARBL													
CALM												25.2	
	25.2	32.9	12.9	3.9								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.0	3.2									7.7	5.7
NNE	.6	3.2	1.3	1.3								6.3	7.3
NE	.6	1.3	1.3									3.2	5.2
ENE	1.9	1.9	.6	1.3								5.8	5.4
E	1.3	1.3	1.9									4.5	5.4
ESE	1.3	2.0	.6									4.5	4.9
SE	.6	1.3										2.6	4.0
SSE	1.3	3.2										4.5	4.0
S	1.9	3.9	1.9									7.7	5.1
SSW	1.3	5.2	2.6	.6								9.7	5.7
SW	1.9	4.2	3.9	1.3								11.6	6.2
WSW	2.6	4.2	1.9									9.0	4.8
W	.6	1.9		.6								3.2	6.2
WNW		.6	.6	1.3								2.6	10.0
NW	1.3		1.3									2.6	4.8
NNW	.6	2.6	3.2	1.3								7.7	7.9
VARBL													
CALM												6.5	
	20.0	41.3	24.5	7.7								100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

2

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

DCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	4.5	1.9								8.4	8.4
NNE	1.3	1.3	1.9	1.3								5.8	7.6
NE		1.9	1.3	1.3								4.5	7.6
ENE	2.6	2.6	3.9	.6								9.7	6.3
E	1.9	4.5	3.2	.6								10.3	5.9
ESE	.6	1.3	1.3									3.2	6.0
SE		1.9	1.3									3.2	6.0
SSE		1.9		.6								2.6	6.8
S	.6	1.3	5.2	.6								7.7	7.8
SSW	1.9	1.9	3.9	.6								8.4	6.8
SW		3.9	2.6	2.6								9.0	8.5
WSW	.6	.6	3.2	1.3								5.8	7.6
W		1.9	3.9									5.8	7.6
WNW		1.3		.6								1.9	8.0
NW	.6	1.9	1.9	.6	.6							5.8	8.1
NNW		.6	3.2	1.3	.6							5.8	9.9
VARBL													
CALM												1.9	
	10.3	31.0	41.3	14.2	1.3							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	3.2	1.3								5.8	9.1
NNE		1.3	3.2	1.3								6.5	9.1
NE		3.2	3.2	.6								7.7	7.7
ENE	1.3	5.6	2.6									9.7	5.6
E		7.1	3.2									11.0	6.1
ESE	1.3	1.3	4.2									7.7	6.8
SE		2.6	3.2	1.3								7.7	7.9
SSE			1.3	.6								1.9	11.0
S	.6	.6	4.2	1.3								7.1	8.2
SSW	.6	1.3	1.3	2.6								5.8	9.1
SW			3.2	.6								4.5	9.9
WSW		1.3	2.6	.6								5.2	7.5
W		1.3	2.6	.6								4.5	8.1
WNW	.6	.6	3.2	.6								5.8	8.0
NW		1.3	.6	1.3								3.2	8.4
NNW	.6	1.3	2.6									5.2	6.8
VARBL													
CALM												.6	
	5.2	32.3	49.0	12.9								100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

152



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73077

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.9	4.5	1.3								8.4	7.8
NNE		.6	.6	.6								1.9	8.7
NE	.6	3.9	3.9	.6								9.0	6.5
ENE	.6	3.2	1.9									5.8	5.4
E	3.2	4.5	3.2	.6								11.6	5.4
ESE		5.2	5.2	.6								11.0	6.6
SE		5.2	5.8	1.3								12.3	7.1
SSE		2.0	2.6	.6								5.8	7.6
S		1.3	2.0	1.3								5.2	8.8
SSW			3.2	2.6								5.8	10.3
SW		.6	3.2	.6								4.5	8.9
WSW			.6	1.9								2.6	10.3
W	.6	1.3	1.9									3.9	6.2
WNW	.6		1.9	.6								3.2	8.6
NW	.6	.6	1.9	.6	.6							3.9	8.7
NNW	.6	.6	1.3	1.3								3.9	8.0
VARBL													
CALM												1.3	
	7.7	31.6	44.5	14.2	.6							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.9	.6								3.9	7.0
NNE	1.3	.6	1.9	.6								4.5	6.6
NE			1.9									3.9	6.0
ENE	1.9	2.6	1.9									6.5	4.6
E	7.7	2.6	3.2									13.5	3.9
ESE	5.2	6.5										11.6	3.5
SE	3.2	6.5	1.3									11.0	4.6
SSE	4.5	5.2										9.7	3.2
S	1.9	7.1	3.2									12.3	5.4
SSW	.6	2.6	2.6									5.8	6.1
SW	1.9	.6	.6									3.2	3.6
WSW	.6	.6										1.3	3.5
W	1.9	1.3										3.2	3.0
WNW													
NW	.6	.6			.6							1.9	8.0
NNW	.6	.6	.6	1.3								3.2	9.4
VARBL													
CALM												4.5	
	32.9	40.0	19.4	2.6	.6							100.0	4.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (U.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	1.3	1.3								1.9	5.7
NNE	1.3	1.3	1.3	1.3								3.9	6.0
NE	1.3	2.6	1.3	1.3								3.2	4.2
ENE	1.3	1.3	1.3	1.3								3.9	3.7
E	3.9	1.3	1.3	1.3								5.8	2.9
ESE	4.5	1.3	1.3	1.3								5.8	2.7
SE	5.2	2.6	1.3	1.3								9.0	3.8
SSE	3.9	5.0	1.3	1.3								10.3	3.6
S	3.9	8.4	5.2	1.3								17.4	5.5
SSW	1.3	1.3	2.6	1.3								5.8	6.6
SW	2.6	2.6	1.3	1.3								7.1	5.1
WSW	1.9	1.3	1.3	1.3								3.2	4.2
W	1.3	1.3	1.3	1.3								1.9	3.0
WNW	1.3	1.3	1.3	1.3								1.9	9.3
NW	1.3	1.3	1.3	1.3								1.9	3.7
NNW	1.3	1.3	1.3	1.3								3.9	7.7
VARBL													
CALM												14.2	
	34.8	31.0	17.4	1.9	1.9							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.9	1.9	2.7	.8								6.3	7.1
NNE	.8	1.4	1.6	.7								4.4	7.1
NE	.6	2.0	1.5	.6								4.8	6.4
ENE	1.5	2.5	1.5	.2								5.7	5.2
E	2.7	3.1	2.1	.2								8.0	4.9
ESE	1.9	2.7	1.5	.2								6.1	5.0
SE	1.4	2.9	1.7	.3								6.3	5.6
SSE	1.5	2.8	.8	.2								5.4	4.8
S	2.4	4.0	3.1	.4								10.0	5.7
SSW	1.6	3.1	2.9	.9								8.4	6.5
SW	2.0	2.9	2.4	.7								8.1	6.0
WSW	1.0	1.3	1.1	.5								4.1	5.7
W	.8	1.4	1.1	.2								3.4	6.0
WNW	.2	.4	1.0	.4	.1							2.1	8.6
NW	.8	.7	1.0	.2	.2							3.0	6.8
NNW	.6	1.1	1.9	.9	.1							4.5	8.1
VARBL													
CALM												9.4	
	20.8	34.0	27.9	7.4	.4							100.0	5.5

TOTAL NUMBER OF OBSERVATIONS

1240



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

YEARS

73-77

JUN  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	2.0	1.3								4.7	8.3
NNE	.7											.7	2.0
NE	1.3	1.3	2.0									4.7	5.7
ENE	1.3	.7	1.3									3.3	6.2
E	4.0	.7	.7									5.3	3.3
ESE	1.3											1.3	2.0
SE	1.3											1.3	1.5
SSE	1.3	2.0	.7									4.0	4.3
S	6.0	8.7										14.7	4.2
SSW	2.0	6.0	4.0									12.0	5.4
SW	5.3	7.3	2.0									14.7	4.1
WSW	2.7	.7	.7									4.0	3.2
W	.7	.7										1.3	3.0
WNW	1.3		1.3									2.7	5.3
NW		.7		.7								1.3	10.0
NNW	1.3	1.3	.7									3.3	4.2
VARBL													
CALM												20.7	
	31.3	30.7	13.3	2.0								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUN  
MONTH

ALL WEATHER

CLASS

04

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	.7	.7	1.3								4.7	6.3
NNE		1.3	1.3									2.7	6.5
NE	.7		1.3	.7								2.7	7.5
ENE	2.7	1.3										4.0	3.3
E	2.0		.7	.7								3.3	5.0
ESE	1.3											1.3	1.0
SE	.7	.7										1.3	3.5
SSE	2.7	1.3										4.0	2.8
S	3.3	3.3	1.3									8.0	4.6
SSW	4.7	7.5	4.0									16.0	4.9
SW	10.0	6.7	.7									17.3	3.5
WSW	2.7	.7	.7									4.0	3.2
W	.7	2.0										2.7	4.0
WNW				1.3								1.3	12.5
NW	.7		1.3									2.0	6.0
NNW	.7	2.0										2.7	4.0
VARBL													
CALM												22.0	
	34.7	27.4	12.0	4.0								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		2.7									4.0	6.5
NNE	.7	1.3	3.3	.7								6.0	7.6
NE	.7	2.0	1.3									4.0	6.0
ENE	.7	.7	1.3									2.7	6.0
E	2.0	2.0	1.3									5.3	4.5
ESE	.7	.7		.7								2.0	5.7
SE	2.0	1.3	.7									4.0	3.3
SSE		2.7										2.7	4.0
S	2.0	2.0	2.7									6.7	4.9
SSW	2.0	2.7	4.0									8.7	5.7
SW	6.7	6.0	0.0									20.7	5.1
WSW	2.0	4.7	6.7									9.3	5.3
W	3.3	1.3	.7									5.3	3.1
WNW	.7	.7	.7	.7								2.7	8.3
NW	.7		.7	1.3								2.7	9.0
NNW		.7	.7	.7								2.0	8.7
VARBL													
CALM												11.3	
	25.3	28.7	30.7	4.0								100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

72-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.0	1.3	.7								4.7	6.3
NNE	.7	.7	2.0	1.3								4.7	8.4
NE		4.7	4.0	1.3								10.0	7.5
ENE		1.3	.7									2.0	5.7
E	.7	5.3	3.3									9.3	6.0
ESE	1.3	.7	.7									2.7	4.5
SE	.7	2.0										2.7	4.5
SSE	.7	2.0		.7								3.3	5.2
S	2.7	.7	2.0									5.3	5.0
SSW		3.3	4.0	.7								8.0	7.0
SW	2.0	3.3	6.7	1.3								13.3	7.0
WSW	1.3	3.3	5.3									10.0	6.5
W	.7	2.7	4.7									6.0	6.0
WNW	1.3	2.0	2.0									5.3	5.6
NW	.7	2.7	1.3	.7								5.3	6.9
NNW	.7	2.0	3.3	.7								6.7	7.5
VARBL													
CALM												.7	
	14.0	38.7	39.3	7.3								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.0	2.7									5.3	6.8
NNE		2.0	2.0	1.3	.7							6.0	9.7
NE		2.0	4.7	.7								7.3	8.5
ENE	.7	5.3	.7	1.3								8.0	6.9
E	.7	7.3	2.3									13.3	6.4
ESE	1.3	3.3	4.0	.7								9.3	6.8
SE	.7	2.0	2.7	.7								6.0	7.0
SSE	1.3		1.3									2.7	5.3
S	.7	2.0	3.3	1.3								7.3	7.6
SSW		3.3	4.0	2.7								10.0	8.2
SW		1.3	3.3	.7								5.3	8.6
WSW	.7	2.0	2.7									3.3	6.6
W	.7	2.0	.7									3.3	6.2
WNW		.7	2.7									3.3	8.4
NW		.7	1.3									2.0	7.0
NNW	.7	1.3	3.3									5.3	6.8
VARBL													
CALM												.0	
	8.0	37.3	44.7	9.3	.7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13709  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.7	3.3									6.0	6.7
NNE		1.3	1.3	2.0								4.7	9.9
NE		4.0	2.7	.7								7.3	7.4
ENE	.7	4.0	2.0		.7							7.3	7.0
E	.7	4.0	5.3	.7								10.7	7.1
ESE	2.0	6.0	5.3									13.3	5.8
SE		2.0	0.0									10.0	7.8
SSE		.7	4.0	.7								5.3	8.5
S	1.3	2.7	2.0	.7								6.7	6.1
SSW		1.3	5.3	2.0								8.7	9.4
SW		.7	2.0	.7								3.3	9.2
WSW	.7	1.3	.7									2.7	5.0
W	1.3	2.7	2.0	1.3								7.3	6.9
WNW													
NW			.7									.7	8.0
NNW		1.3	1.3	2.0								4.7	8.7
VARBL													
CALM												1.3	
	6.7	34.7	46.0	10.7	.7							100.0	7.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

UCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	.7	2.7									4.0	6.3
NNE	.7	.7	1.3	2.0								4.7	9.1
NE	.7	1.3	1.3	.7								4.0	6.7
ENE	4.0	.7	1.3	.7								6.7	5.4
E	2.7	3.3	1.3	.7								8.0	5.4
ESE	6.7	6.7	.7									14.0	3.8
SE	3.3	6.7	.7									10.7	4.3
SSE	4.7	6.7	1.3									12.7	4.3
S	3.3	6.7	3.3									13.3	5.2
SSW	1.3	.7	3.3	1.3								6.7	7.5
SW	2.0	2.0	.7									4.7	4.3
WSW		.7										.7	4.0
W	.7											.7	2.0
WNW			.7	.7								1.3	11.0
NW		.7	1.3									2.0	7.3
NNW	.7		1.3									2.0	7.0
VARBL													
CALM												4.0	
	31.3	37.3	21.3	6.0								100.0	5.1

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

72-77

YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

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TOTAL NUMBER OF OBSERVATIONS

150

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SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.7	1.3									2.0	6.3
NNE	.7		2.0	.7								3.3	8.2
NE	.7	2.7	1.3	.7								5.3	6.8
ENE	2.7											2.7	2.0
E	2.7	2.7	1.3									6.7	4.4
ESE	2.7	.7										3.3	3.0
SE	2.7	.7										3.3	2.6
SSE	6.7	4.7										11.3	3.3
S	4.0	13.3	5.3									22.7	5.3
SSW	.7	1.3	3.3									5.3	6.8
SW	4.7	4.0	2.0									10.7	4.2
WSW	.7	1.3										2.0	3.0
W													
WNW	.7			.7								1.3	6.5
NW	.7	.7	.7									1.3	7.0
NNW	.7	2.0	.7	.7								4.0	7.3
VARBL													
CALM												14.7	
	30.0	34.7	18.0	2.7								100.0	4.2



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUN

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.2	2.1	.4								4.4	6.7
NNE	.4	.9	1.7	1.0	.1							4.1	8.5
NE	.5	2.2	2.3	.6								5.7	7.2
ENE	1.6	1.7	.9	.2	.1							4.6	5.7
E	1.9	3.2	2.4	.2								7.7	5.6
ESE	2.2	2.2	1.3	.2								5.9	4.9
SE	1.4	1.9	1.2	.1								4.9	5.2
SSE	2.2	2.3	.9	.2								5.7	4.5
S	2.9	4.9	2.5	.2								10.6	5.3
SSW	1.3	3.2	4.0	.8								9.4	6.6
SW	3.8	3.9	3.2	.3								11.2	5.1
WSW	1.3	1.8	1.6									4.7	5.2
W	1.0	1.4	.7	.2								3.3	5.3
WNW	.5	.4	.9	.4								2.2	7.4
NW	.2	.7	.9	.3								2.2	7.5
NNW	.6	1.3	1.4	.5								3.8	6.9
VARBL												9.3	
CALM												100.0	5.3
	22.7	33.7	28.4	5.7	.2								

TOTAL NUMBER OF OBSERVATIONS

1200

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.0										.6	5.0
NNE	.6	.6	.6									1.9	4.7
NE	.6	.6										1.3	4.0
ENE													
E	.6	.6										1.3	4.0
ESE		.6										.6	6.0
SE	.6											.6	2.0
SSE	2.6	1.3										3.9	2.7
S	4.5	7.7	1.9									14.2	4.4
SSW	4.5	6.3	7.7	.6								19.4	5.9
SW	8.4	9.0	1.3									18.7	3.9
WSW	3.2	1.9	.6									5.8	3.3
W	.6	.6	.6									1.9	4.7
WNW	.6											.6	1.0
NW	.6	.6										1.3	3.0
NNW		.6										.6	4.0
VARBL													
CALM												27.1	
	27.7	31.6	12.9	.6								100.0	3.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0										3.9	4.7
NNE			1.9									1.9	8.3
NE	1.9	1.3										3.2	3.0
ENE													
E			1.3									1.3	8.0
ESE													
SE	1.9											1.9	2.0
SSE	1.3	.6										1.9	3.0
S	4.5	.6										5.2	3.0
SSW	3.2	9.0	3.2									15.5	5.2
SW	9.0	9.7	2.6									21.3	4.1
WSW	4.5	2.6		.6								7.7	3.8
W	.6	.6										1.3	4.0
WNW	2.6	.6										3.2	3.0
NW	1.3		.6									1.9	4.0
NNW	.6	.6										1.3	3.5
VARBL													
CALM												28.4	
	32.9	28.4	9.7	.6								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.6	1.9	1.3	.6								6.5	5.7
NNE	1.3	3.2	3.2									7.7	5.8
NE	.6	1.9										2.6	4.5
ENE	.6											.6	3.0
E		.6										.6	4.0
ESE	.6		.6									1.3	4.5
SE													
SSE	1.9	1.3										3.2	2.8
S	2.6	2.6										5.2	3.8
SSW		6.5	4.5									11.0	6.2
SW	5.2	11.6	6.5	.6								23.9	5.3
WSW	3.2	5.2	3.2									11.6	5.2
W	2.6	1.9										4.5	3.0
WNW	.6	.6										1.3	4.5
NW		.6	1.3									1.9	7.7
NNW	1.3	.6		.6								2.6	5.3
VARBL													
CALM												15.5	
	23.2	38.7	20.6	1.9								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.4	1.9	.6								4.3	6.6
NNE		1.9	3.2	1.9								7.1	8.5
NE	1.3	7.7	3.9									12.9	5.5
ENE	.6	1.4										2.6	4.3
E	2.6	2.0	.6									5.8	4.2
ESE	.6	.6										1.3	4.5
SE	1.3	.6	.6									2.6	4.8
SSE	1.3	1.4										2.6	3.8
S	2.6	.6	1.3									4.5	4.9
SSW	1.3	5.0	5.2	.6								12.9	6.5
SW	1.3	7.1	5.2	1.3								13.5	7.1
WSW	1.9	.6	1.3	.6								4.5	5.9
W	3.2	4.3	2.6									10.3	4.7
WNW		1.3	1.3									2.6	6.5
NW	3.2	1.3	1.3	.6								6.5	5.3
NNW	1.3	1.3	1.3									3.9	5.5
VARBL													
CALM												1.9	
	21.9	40.6	29.7	5.8								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.6	.6									1.3	6.0
NNE		3.9	1.9									5.8	7.0
NE	.6	3.9	1.9									6.5	6.4
ENE		5.8	4.5									10.3	6.2
E	.6	7.1	3.2									11.0	5.5
ESE	.6	2.0	5.8									9.0	6.4
SE	1.3	1.9	1.9									5.2	6.0
SSE	.6	1.3	.6									2.6	4.8
S	1.3	3.2	3.9									8.4	5.7
SSW	.6	2.0	5.8	.6								9.7	7.8
SW	.6	3.2	1.9									5.8	6.2
WSW		1.9	1.9	.6								4.5	7.6
W	.6	1.9	3.2									5.8	6.1
WNW		1.3	.6									1.9	6.0
NW		1.3	1.3									2.6	6.8
NNW	1.3	2.0	3.9	1.3								9.0	7.0
VARBL													
CALM												.6	
	8.4	45.2	43.2	2.6								100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

155

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NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	.6	.6								3.2	6.8
NNE		3.9		.6								4.5	6.4
NE	.6	2.0	3.2	.6								7.1	7.0
ENE	1.3	6.2	.6									8.4	5.2
E		11.0	6.5									17.4	6.1
ESE	.6	7.1	4.5									12.3	6.1
SE	.6	3.2	3.2									7.1	6.0
SSE	.6		3.2	1.3								5.2	8.3
S	1.3	3.2	6.5									11.0	6.4
SSW	.6	1.3	3.9	1.3								7.1	7.5
SW		1.3	3.2	1.9								6.5	8.7
WSW	.6	.6	1.9									3.2	6.8
W			1.9									1.9	8.3
WNW	.6	.6										1.3	4.5
NW		.6	.6									1.3	6.5
NNW		1.3										1.3	4.5
VARBL													
CALM												1.3	
	7.1	45.2	40.0	6.5								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.3										1.9	4.0
NNE	3.9	1.9	.6									6.5	3.5
NE	.6	2.6	1.9									5.2	5.9
ENE	1.3	.6										1.9	3.0
E	5.2	1.3	.6									7.1	3.2
ESE	8.4	4.5	.6									13.5	3.6
SE	8.4	7.1										15.5	3.2
SSE	3.9	5.2	1.9									11.0	4.3
S	4.5	9.0	3.9									17.4	5.1
SSW	.6	2.6	.6									3.9	5.2
SW	1.3	1.9	1.9									5.2	5.3
WSW	.6											.6	3.0
W		1.3										1.3	4.0
WNW	.6											.6	2.0
NW													
NNW		.6		.6								1.3	8.0
VARBL													
CALM												7.1	
	40.0	40.0	12.3	.6								100.0	3.9

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13759  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

22

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3											1.3	2.5
NNE	1.3	.6										1.9	2.0
NE	1.3	.6	.6									2.6	3.8
ENE	3.2			.6								3.9	4.2
E	1.3	1.3										2.6	3.3
ESE	1.9	.6										2.6	2.5
SE	3.2	1.9										5.2	3.4
SSE	6.5	2.6										9.0	3.1
S	8.4	11.0	5.8									25.2	4.7
SSW	2.6	5.8	1.9									9.7	4.9
SW	2.6	5.8	1.9									10.3	4.6
WSW	1.9	3.2	.6									5.8	4.4
W		.6										.6	5.0
WNW													
NW			.6									.6	10.0
NNW			.6									.6	10.0
VARBL													
CALM												18.1	
	35.5	34.2	11.6	.6								100.0	3.5

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.8	1.3	.9	.2								2.9	5.5
NNE	.9	2.0	1.5	.3								4.7	6.1
NE	1.0	2.7	1.5	.1								5.2	5.5
ENE	.9	1.9	.6	.1								3.5	5.1
E	1.3	3.1	1.5									5.9	5.1
ESE	1.6	2.0	1.5									5.1	5.0
SE	2.2	1.9	.7									4.8	4.2
SSE	2.3	1.7	.7	.2								4.9	4.2
S	3.7	4.6	2.9									11.4	4.9
SSW	1.7	5.0	4.0	.4								11.1	6.1
SW	3.4	6.2	3.1	.5								13.1	5.2
WSW	2.0	2.0	1.2	.2								5.5	5.0
W	1.0	1.2	1.0									3.5	4.9
WNW	.6	.9	.2									1.5	4.4
NW	.6	.9	.7	.1								2.0	5.8
NNW	.6	1.0	.7	.3								2.6	6.2
VARBL												12.5	
CALM												100.0	4.6
	24.6	38.0	22.5	2.4									

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0											.6	2.0
NNE	1.3	.6	1.9									3.9	5.5
NE	.6		.6									1.3	5.0
ENE	1.3	.6	1.3									3.2	4.4
E	1.9											1.9	2.3
ESE		.6										.6	5.0
SE		.6										.6	4.0
SSE	.6	.6										1.3	4.0
S	2.6	7.7	.6									11.0	4.4
SSW	1.9	8.4	3.2									13.5	5.2
SW	10.3	8.4	.6									19.4	3.6
WSW	3.9	4.5	.6									9.0	3.9
W	1.9		.6									2.6	3.0
WNW		.6										.6	6.0
NW													
NNW		.6	.6									1.3	6.0
VARBL													
CALM												29.0	
	27.1	33.2	10.3									100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	.6	1.9									3.2	6.0
NNE		.6	.6									1.3	7.0
NE	.6	1.3	.6	.6								3.2	6.4
ENE		.6										.6	5.0
E	.6		.6									1.3	4.5
ESE	1.3											1.3	2.5
SE	.6											.6	3.0
SSE	1.9	.6										2.6	2.5
S	3.9	3.2	1.3									8.4	3.9
SSW	3.9	3.2	2.6									11.6	4.6
SW	12.9	10.3										23.2	3.3
WSW	3.9	3.2										7.1	3.0
W	1.3	.6										1.9	3.0
WNW	.6	.6										1.3	3.5
NW	1.3											1.3	1.0
NNW	.6		1.3									1.9	6.3
VARBL													
CALM												29.0	
	34.2	27.1	9.0	.6								100.0	2.8

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	2.2	.6								9.0	7.4
NNE	1.9	.6	1.9									4.5	5.6
NE		1.3	.6									1.9	6.0
ENE	.6	1.3	.6									2.6	5.3
E		.6		.6								1.3	8.5
ESE	.6											.6	2.0
SE	.6	1.3										1.9	3.3
SSE	1.9	.6										2.6	3.3
S	3.9	4.5	.6									9.0	3.9
SSW	3.9	6.5	1.9									12.3	4.3
SW	4.5	9.0	2.6									16.1	4.4
WSW	5.2	5.8	.6									11.6	3.7
W	4.5	.6										5.2	2.5
WNW		.6										.6	5.0
NW		1.3	.6									1.9	6.7
NNW													
VARBL													
CALA												18.7	
	28.4	36.8	14.8	1.3								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

TOTAL NUMBER OF OBSERVATIONS

155

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	1.3	1.9	.6								7.1	5.5
NNE		1.3	0.5	1.9								9.7	8.5
NE	.6		1.9									2.6	7.5
ENE	.6	3.2	2.6									6.5	6.6
E	1.3	4.5	1.9									7.7	5.5
ESE	1.3	1.3										2.6	3.8
SE			.6									.6	7.0
SSE	.6	.6	.6									1.9	4.3
S	1.9	3.9	1.3									7.1	5.2
SSW	1.9	5.2	3.9									11.0	5.9
SW	1.9	5.2	5.2									12.3	5.9
WSW	3.2	2.6	3.2									11.0	5.6
W	2.6	1.7	.6									5.2	3.9
WNW	1.9											1.9	2.0
NW	2.6	.6	1.3									4.5	4.1
NNW		2.6	1.9	.6								5.2	7.1
VARBL													
CALM												3.2	
	23.9	34.2	35.5	3.2								100.0	5.6

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13759  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.9	.6	1.3								5.2	6.3
NNE		1.9	3.9	1.3								7.1	6.8
NE		2.6	2.6	1.3								6.5	7.6
ENE	1.9	5.2	3.2									10.3	5.6
E	1.3	6.4	1.9	.6								12.3	5.6
ESE		5.2	4.5	.6								10.3	6.5
SE		2.6	1.9									4.5	6.1
SSE		.6	1.3	.6								2.6	9.0
S	1.3	5.8	1.9	.6								9.7	5.6
SSW	.6	3.2	4.5	1.3								9.7	7.3
SW	.6	1.3	5.6	.6								8.4	7.7
WSW	.6	2.6	2.6	.6								6.5	6.5
W		1.3	.6									1.9	6.7
WNW		.6										.6	5.0
NW			.6			.6						1.3	16.0
NNW		.6	1.9									2.6	7.0
VARBL													
CALM												.6	
	7.7	43.9	38.1	9.0		.6						100.0	6.7

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

AUG

MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.9	3.9									5.2	6.8
NNE		1.9	3.9	1.3								7.1	8.5
NE		2.0	1.9	.6								3.2	8.6
ENE	.6	7.1	1.9									9.7	5.3
E	.6	12.9	3.9	.6								17.4	5.6
ESE		5.8	3.9	.6								9.7	6.7
SE	.6	5.8	3.9									11.6	6.1
SSE	.6	2.0	2.0									5.8	6.4
S		5.8	3.9									9.7	6.5
SSW		.6	3.9	.6								5.2	8.6
SW	.6	3.9	3.9									7.7	6.7
WSW		1.3	1.3									2.6	6.0
W			.6									.6	10.0
WNW		.6										.6	5.0
NW			.6									.6	8.0
NNW		1.3	1.9									3.2	7.0
VARBL													
CALM												.0	
	3.2	51.0	41.3	3.9								100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.3	1.9									3.2	7.0
NNE	1.3	.6	.6									2.6	4.6
NE	1.9	3.2	1.9	1.3								8.4	6.3
ENE	2.6	1.9										4.5	3.1
E	5.8	1.3		.6								7.7	3.4
ESE	6.4	5.2										13.5	3.1
SE	4.5	7.7										12.3	3.8
SSE	4.5	5.2	1.9									11.6	4.6
S	3.2	7.1	2.6									12.9	5.1
SSW	.6	3.2	1.3									5.2	4.9
SW	1.3	3.2	.6	.6								6.5	5.2
WSW			.6									.6	9.0
W	.6											.6	2.0
WNW													
NW		.6										.6	4.0
NNW	1.3	1.3										2.6	3.8
VARBL													
CALM												7.1	
	36.1	42.6	11.6	2.6								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9											1.9	2.3
NNE		.6	1.3									1.9	6.3
NE		1.9	.6									2.6	6.3
ENE	1.9	1.9	1.3									5.2	4.5
E	2.6			1.3								3.9	5.3
ESE	3.2	.6										3.9	1.8
SE	1.3	1.3										2.6	3.5
SSE	6.5	3.4										9.7	2.9
S	9.7	13.3	1.9									25.2	4.2
SSW	3.9	5.2	1.3									10.3	4.4
SW	3.2	4.5	.6									8.4	4.3
WSW	3.2	1.3										4.5	2.4
W	.6		.6									1.3	5.5
WNW	1.3											1.3	2.5
NW		.6										.6	4.0
NNW			.6									.6	9.0
VARBL													
CALM												16.1	
	39.4	34.4	8.4	1.3								100.0	3.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.2	1.9	.3								4.4	6.2
NNE	.6	1.0	2.6	.6								4.8	7.5
NE	.5	1.4	1.4	.5								3.7	6.9
ENE	1.2	2.7	1.4									5.3	5.2
E	1.8	3.2	1.0	.5								6.7	5.2
ESE	1.9	2.3	1.0	.2								5.3	4.7
SE	1.0	2.4	1.0									4.4	4.9
SSE	2.1	1.8	.8	.1								4.8	4.5
S	3.3	6.3	1.8	.1								11.6	4.7
SSW	2.1	4.7	2.8	.2								9.8	5.4
SW	4.4	5.7	4.4	.2								12.7	4.7
WSW	2.3	2.7	1.4	.1								6.6	4.5
W	1.5	.8	.4									2.4	3.8
WNW	.5	.4										.9	3.5
NW	.5	.4	.4			.1						1.4	5.8
NNW	.2	.8	1.0	.1								2.2	6.5
VARBL													
CALM												13.0	
	25.0	38.1	21.1	2.7		.1						100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

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TOTAL NUMBER OF OBSERVATIONS

150

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SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	2.7	.7								5.3	7.6
NNE	.7	2.7	2.0									5.3	5.9
NE	1.3	.7	1.3									3.3	5.0
ENE	1.3	.7	.7									2.7	4.8
E	2.0	4.0		1.3								7.3	5.4
ESE	.7											.7	2.0
SE	1.3	.7	.7	.7								3.3	5.4
SSE	2.7	1.3										4.0	3.0
S	2.7	8.7	1.3									12.7	4.6
SSW	3.3	3.3	4.0									10.7	5.1
SW	5.3	2.7	1.3									9.3	3.6
WSW	2.7	.7	.7									4.0	3.5
W	2.0	1.3										3.3	3.2
WNW	.7	.7		.7								1.3	8.0
NW	.7		1.3									2.0	6.0
NNW	1.3	2.0	1.3									4.7	5.3
VARBL													
CALM												20.0	
	28.7	30.7	17.3	3.3								100.0	3.9



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.7	2.7	.7								6.7	7.1
NNE	.7	.7	2.7									4.0	6.3
NE	3.3	2.7	1.3									7.3	4.4
ENE			2.7									2.7	7.8
E	1.3	1.3	.7	1.3								4.7	7.1
ESE	.7			.7								1.3	7.0
SE	1.3	1.3										2.7	3.5
SSE	.7	1.3										2.0	4.0
S	.7	3.3	.7									4.7	4.4
SSW	4.0	7.3	1.3									12.7	4.1
SW	5.3	4.7	.7									10.7	3.6
WSW	3.3	1.3										4.7	3.3
W		1.3										1.3	4.5
WNW	1.3	1.3	.7									3.3	4.2
NW	.7	.7	.7	.7								2.7	6.8
NNW	1.3		2.0	1.3								4.7	7.4
VARBL													
CALM												24.0	
	25.3	30.0	16.0	4.7								100.0	3.8

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	0.7	1.3								10.7	7.5
NNE		2.0	2.7									4.7	6.1
NE		2.7	2.0	.7								5.3	7.4
ENE	.7	2.0	.7									3.3	5.2
E	1.3	1.3	2.7									5.3	6.4
ESE			.7									.7	9.0
SE	1.3	2.0	.7									4.0	4.3
SSE													
S	2.7	3.3										6.0	4.2
SSW	2.0	3.3	2.7									8.0	5.4
SW	4.7	5.3	2.0									12.0	4.3
WSW	3.3	2.0	.7									6.0	3.4
W	2.0	.7										2.7	2.5
WNW	.7											.7	1.0
NW	1.3	.7	.7									2.7	3.6
NNW	.7	2.0	2.0	.7								5.3	6.4
VARBL													
CALM												22.7	
	22.0	28.7	24.0	2.7								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			4.7	2.0								6.7	10.0
NNE	1.3		7.3									8.7	7.2
NE		2.0	4.0									6.0	7.2
ENE		2.7	3.3	.7								6.7	7.6
E		2.0	2.0	2.0								6.0	8.7
ESE	1.3	3.3	.7									5.3	5.1
SE	.7	1.3		.7								2.7	6.0
SSE	1.3		2.0									3.3	6.0
S	2.0	1.3	2.0	.7								6.0	5.7
SSW	1.3	2.0	2.7	.7								6.7	6.5
SW	1.3	2.7	3.3	1.3								8.7	7.2
WSW	2.0	4.0	3.3									9.3	5.8
W	1.3	2.0	.7									4.0	4.8
WNW		2.7										2.7	4.0
NW	.7	1.3	1.3									3.3	5.2
NNW	1.3	1.3	6.0	.7								9.3	7.9
VARBL													
CALM												4.7	
	14.7	28.7	43.3	8.7								100.0	6.5

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.3	3.3	1.3								6.7	8.0
NNE		2.0	4.0	1.3								7.3	8.5
NE			4.7									4.7	8.1
NNE	.7	6.0	6.0									12.7	6.3
E	2.0	6.0	5.3	.7								14.0	6.2
ESE		2.0	2.7									4.7	6.6
SE		1.3	4.7									6.0	7.3
SSE		1.3	1.3									2.7	7.3
S	.7		2.0	.7								3.3	7.6
SSW	2.0	2.0	6.0	.7								10.7	6.7
SW	.7	3.3	.7	2.0								6.7	7.6
WSW		2.0	2.7	.7								5.3	7.8
W		2.7	.7									3.3	5.4
WNW	.7	.7										1.3	3.0
NW		1.3	1.3									2.7	6.3
NNW	.7	2.7	2.7	2.0								8.0	7.5
VARBL													
CALM												0	
	8.0	34.7	48.0	9.3								100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.7	4.0	1.3								8.0	7.8
NNE		2.7	4.7	.7								8.0	7.7
NE	.7		2.7	2.0								5.3	8.6
ENE	.7	0.7	3.3									10.7	5.7
E	.7	10.7	3.3	.7								15.3	5.9
ESE		4.0	4.0									8.0	6.7
SE		3.3	6.0	.7								10.0	7.1
SSE	.7	.7	2.7									4.0	6.7
S	.7	1.3	2.0	.7								4.7	7.3
SSW		2.7	4.7									7.3	7.6
SW		2.0	2.7									4.7	6.9
WSW		.7	1.3									2.0	8.3
W	1.3	2.7	.7									4.7	5.0
WNW													
NW	.7	.7	.7									2.0	5.3
NNW		2.0	2.7									4.7	7.0
VARBL													
CALM												.7	
	5.3	42.7	45.3	6.0								100.0	6.8

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH

ALL WEATHER  
CLASS

19  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0	2.0									5.3	5.6
NNE	2.7	2.7	1.3									6.7	4.4
NE	1.3	.7	2.0	.7								4.7	6.9
ENE	2.0	3.3	2.0									7.3	4.8
E	2.0	4.0										6.0	4.1
ESE	6.0	.7	.7	.7								8.0	3.6
SE	5.3	3.3										8.7	3.2
SSE	6.7	7.3	.7									14.7	3.8
S	6.7	6.0	1.3									14.0	4.1
SSW	2.0	.7	1.3									4.0	4.8
SW	1.3											1.3	2.0
WSW	2.7											2.7	2.0
W	.7	.7										1.3	3.0
WNW	.7											.7	1.0
NW													
NNW	.7	1.3		.7								2.7	6.5
VARB													
CALM												12.0	
	42.0	32.7	11.3	2.0								100.0	3.7

TOTAL NUMBER OF OBSERVATIONS

150

## SURFACE WINDS

**PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)**

13769	STATION
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OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

MONTH  
days

**ALL WEATHER**  
**CLASS**

HOURS (L.S.T.)

**CONDITION**

5702 SURFACE WINDS JAN 78

[illegible]

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

0120

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

SFP  
MONTH

ALL WEATHER  
CLASS

ALL  
MOORE (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	1.7	3.3	.9								6.5	7.6
NNE	1.0	1.7	3.3	.3								6.4	6.6
NE	.9	1.2	2.4	.5								5.1	6.7
ENE	.7	2.0	2.4	.2								6.2	6.1
E	1.7	4.1	1.0	.7								8.3	5.9
ESE	1.2	1.4	1.1	.2								4.0	5.5
SE	1.4	1.7	1.0	.2								5.0	5.3
SSE	1.7	1.9	.6									4.4	4.5
S	2.8	4.2	1.5	.2								8.7	4.8
SSW	2.1	3.0	3.2	.2								8.5	5.6
SW	2.0	2.0	1.3	.4								7.4	4.9
WSW	2.2	1.3	1.1	.1								4.7	4.6
W	1.1	1.0	.5									3.2	4.5
WNW	.4	.7	.1	.1								1.2	4.1
NW	.6	.0	.0	.1								2.1	5.6
NNW	.9	1.0	2.2	.7								5.5	7.0
VARBL													
CALM												12.7	
	22.2	32.4	27.7	5.0								100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

1200

0000



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	1.3	3.2	3.2								9.0	9.0
NNE	1.9	1.3	2.6	2.6								8.4	8.2
NE		.6	.6	.6								1.9	9.0
ENE	.6	.6	.6									1.9	5.0
E	1.3	.6	.6									2.6	4.3
ESE	1.3	1.3	.6									3.2	4.4
SE		1.9	.6									2.6	5.8
SSE	1.3											1.3	1.5
S	1.9	2.6		.6								5.2	4.6
SSW	2.6	3.2	1.9									7.7	4.6
SW	10.3	2.6	1.3									14.2	3.5
WSW	1.9	2.6		.6								5.2	4.9
W	.6	.6	.6									1.9	5.7
WNW	1.3											1.3	1.5
NW	1.9		1.3	.6								3.9	5.7
NNW	1.3	.6	1.9	1.9								5.8	7.7
VARBL													
CALM												23.9	
	29.7	20.0	16.1	10.3								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

0000

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	1.3	4.3	3.9								11.6	8.6
NNE	.6	1.9	2.6	1.9								7.1	7.7
NE		2.6	.6									3.2	6.2
ENE		.6		.6								1.3	8.0
E	.6	.6	.6									1.9	5.3
ESE		.6	1.3									1.9	7.0
SE													
SSE	.6											.6	2.0
S	1.3	1.9	1.3									4.3	5.4
SSW	1.9	3.9										5.8	4.2
SW	14.6	1.9	1.3									18.1	2.9
WSW	4.3	.6	1.3									6.5	3.7
W	1.3	.6		.6								2.6	5.3
WNW	.6		.6									1.3	5.0
NW		.6		1.9								2.6	11.8
NNW	.6	1.3	2.6	.6								5.2	7.4
VARBL													
CALM												25.8	
	29.0	18.7	16.8	9.7								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

007  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	3.2	3.2	3.0	1.9								14.2	6.9
NNE	1.3	.0	1.9	3.2								7.1	9.7
NE	.6	1.9	1.9									4.5	6.4
ENE		1.9	1.9									3.2	6.2
E	.6	1.3	.6									2.6	4.8
ESE	.6											.6	1.0
SE			1.3									1.3	6.0
SSE			1.3									1.3	9.0
S	.6	1.9	1.3									3.9	5.7
SSW	2.6	.6	1.9									5.2	4.5
SW	9.7	5.6	1.3									16.8	3.4
WSW	2.6	2.6	1.9									7.1	4.7
W	2.6	1.3										3.9	2.8
WNW			.6									.6	9.0
NW		.6										.6	5.0
NNW	.6	.6	1.9	2.6								5.8	9.3
VARBL													
CALM												21.3	
	25.2	22.6	23.2	7.7								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.0	5.0	5.2								14.2	8.6
NNE	.6	1.9	1.9	3.9								7.7	9.7
NE	1.3	1.3	4.5	1.3								8.4	7.5
ENE		1.9	1.9	.6								3.9	7.7
E	.6	1.3	1.9	1.3								5.2	7.5
ESE	1.3	1.3	.6									3.2	4.8
SE			1.9									1.3	8.0
SSE		.6	.6									1.3	7.5
S	.6	.6	2.0									3.9	6.7
SSW	1.3	1.3	1.9	1.9								5.8	7.2
SW	1.3	1.9	3.9	1.3								8.4	7.1
WSW	2.0	1.9	4.5									9.0	5.6
W		2.0	1.9	1.3								5.2	7.8
WNW	.6		.6	.6								1.9	7.7
NW	.6	1.9	2.0	2.6								7.1	9.2
NNW	.6	2.0	3.2	2.6	1.9							11.0	9.9
VARBL													
CALM												2.6	
	12.3	23.2	37.4	22.6	1.9							100.0	7.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

STATION  
13769

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

OCT  
MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	3.9	1.9	3.2	.6							10.3	8.8
NNE	1.3	2.0	1.9	2.6								8.4	7.5
NE	1.9	1.9	1.9	1.3								5.2	8.1
ENE	1.3	5.0	1.3									8.4	5.4
E	.6	4.5	4.5									9.0	6.5
ESE	.6	1.3	1.9	.6								4.5	7.4
SE			1.3									1.3	9.5
SSE			1.3									1.3	8.5
S	.6	.6	3.9	.6								5.8	7.2
SSW	1.3	1.9	2.6	1.3	.6							7.7	8.3
SW	1.3	1.9	.6	2.6								6.5	8.3
WSW	.6	.6	1.9	1.3								3.9	9.7
W	.6	1.9	1.9									4.5	6.4
WNW			1.3									1.3	9.5
NW		1.9	3.9	2.6	.6							9.0	10.1
NNW		3.2	5.0	4.5								12.9	9.3
VARBL													
CALM												.0	
	7.7	32.3	37.4	20.6	1.9							100.0	8.1

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0	3.2	2.6								9.7	7.7
NNE		2.0	4.2	1.3								8.4	8.2
NE	1.3	1.3	1.3	1.9								5.8	7.4
ENE	1.3	3.2	1.9									7.1	5.6
E	.6	14.2	.6	.6								16.1	5.3
ESE		3.2										3.2	4.8
SE		1.3	.6	1.3								3.2	8.8
SSE	.6	1.3			.6							2.6	8.0
S	.6	.6	2.6									3.9	6.3
SSW	.6	1.9	1.3	.6								4.3	6.7
SW		2.0	3.9	.6								7.1	7.5
WSW			1.3	.6	.6							2.6	11.8
W	.6	3.2	1.3									5.8	5.9
WNW			2.0									2.6	9.0
NW		1.9	1.3	1.9								5.2	8.1
NNW	1.9	2.0	3.2	2.6								10.3	7.4
VARBL													
CALM												1.9	
	9.0	43.9	29.7	14.2	1.3							100.0	6.9

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

OCT

MONTH

19

HOURS (L.S.T.)

ALL WEATHER

CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.6	3.2	.6								7.7	6.4
NNE	3.2	2.6	1.9	2.6								10.3	6.8
NE	1.3		1.9	.6								3.9	7.0
ENE	1.3	1.3										2.6	4.3
E	1.3	2.6	.6									4.5	4.3
ESE	3.2	.6		.6								4.5	3.9
SE	1.3	2.6	.6									4.5	4.4
SSE	2.6	3.9		.6								7.1	4.5
S	4.5	3.2	.6									6.4	3.2
SSW	.6	2.6	.6									3.9	5.3
SW	1.9	1.9										3.9	3.7
WSW	.6	.6	1.3	.6								3.2	7.4
W	1.3		.6	.6								2.6	7.0
WNW	.6	1.3										2.6	3.8
NW	.6	1.3	1.3									3.2	6.4
NNW	2.6	.6	1.3	3.2								7.7	7.7
VARBL													
CALM												19.4	
	28.4	28.4	14.2	9.7								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

OCT  
MONTH

22  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6		3.9	5.2								9.7	10.3
NNE		1.3	1.3	1.9								4.5	8.7
NE	.6	2.0	1.3									4.5	5.6
ENE	1.9	1.3	.6									3.9	4.3
E	.6	1.3	1.9									3.2	5.6
ESE	.6	2.0	.6									3.2	4.4
SE	.6	1.3	.6									2.6	4.8
SSE	1.3	1.9										3.2	3.4
S	3.2	3.2	.6	1.3								8.4	4.7
SSW	1.3	3.9	1.9									7.1	5.1
SW	7.1	2.0	.6									10.3	3.3
WSW	1.9	1.3	.6	.6								4.5	6.1
W	.6	.6	1.3									2.6	5.8
WNW	.6	.6										1.3	4.5
NW			1.9	.6								2.6	11.0
NNW	1.3	.6	.6	1.9	.6							5.2	8.8
VARBL													
CALM												23.2	
	22.6	25.2	16.8	11.6	.6							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

OCT  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.4	2.4	4.0	3.2	.1							10.8	8.3
NNE	1.1	1.9	2.3	2.5								7.7	8.2
NE	.6	1.3	1.8	.7								4.7	7.1
ENE	.3	2.2	.9	.2								4.0	5.7
E	.7	3.3	1.4	.2								5.6	5.6
ESE	1.0	1.4	.6	.2								3.1	5.1
SE	.2	.9	.8	.2								2.1	6.5
SSE	.8	1.0	.4	.1	.1							2.3	5.3
S	1.7	1.9	1.6	.3								5.5	5.2
SSW	1.5	2.4	1.5	.5	.1							6.0	5.8
SW	5.8	2.7	1.6	.6								10.6	4.4
WSW	1.8	1.3	1.8	.5	.1							5.2	6.0
W	1.0	1.5	.9	.3								3.6	5.9
WNW	.5	.2	.7	.1								1.6	6.2
NW	.4	1.0	1.5	1.3	.1							4.3	8.8
NNW	1.1	1.5	2.5	2.5	.3							8.0	8.6
VARBL													
CALM												14.8	
	20.5	26.8	24.0	13.3	.7							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER

CLASS

01

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	4.0	2.7	.7		.7						8.7	8.0
NNE		.7	.7									1.3	5.5
NE			1.3	.7								2.0	10.3
ENE		.7	.7									1.3	7.0
E	.7	.7	.7	.7								2.0	6.3
ESE		1.3	.7									2.0	6.0
SE	.7	.7										1.3	4.5
SSE	1.3	.7										2.0	2.7
S	1.3	4.0	1.3									6.7	5.2
SSW	5.3	3.3	6.0	.7								15.3	5.5
SW	6.7	6.7	1.3									16.7	3.5
WSW	2.0	2.0	.7									4.7	4.0
W	2.7	2.7	1.3	.7								7.3	5.6
WNW	.7		4.0	.7								3.3	8.6
NW		.7	2.0	2.7								3.3	10.5
NNW		1.3	1.3	.7								3.3	8.0
VARBL													
CALM												16.7	
	24.0	29.3	22.0	7.3		.7						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.7	4.7	.7								11.3	7.1
NNE		.7		.7								1.3	9.5
NE	.7		1.3									2.0	5.7
ENE		.7		.7								1.3	8.5
E	.7	2.0	.7									3.3	5.2
ESE		.7										.7	5.0
SE	.7											.7	2.0
SSE	.7	.7										1.3	3.5
S	.7	3.3	.7									4.7	4.7
SSW	3.3	5.3	1.3	1.3								11.3	5.4
SW	10.0	6.7	2.0									18.7	3.6
WSW	2.0	2.7	2.0	.7								7.3	5.5
W	1.3	2.0	2.0									5.3	5.5
WNW		1.3	1.3	.7								3.3	8.0
NW	1.3	.7	.7	.7								3.3	6.2
NNW	.7		1.3	3.3								5.3	10.5
VARBL													
CALM												18.7	
	23.3	31.3	18.0	8.7								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

150

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

YEARS

73-77

NOV  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	3.3	3.3	1.3								8.7	7.1
NNE	.7	2.7	.7	1.3								5.3	7.0
NE		.7										.7	5.0
ENE			.7									.7	8.0
E		.7	1.3									2.0	8.3
ESE	1.3	1.3	.7									3.3	4.4
SE		1.3										1.3	4.5
SSE		1.3	1.3									2.7	5.8
S	1.3	2.0	.7									4.0	4.2
SSW	2.0	6.0	4.0									12.0	5.6
SW	5.3	8.0	.7	.7								14.7	4.2
WSW	4.0	4.7	.7									9.3	3.7
W	2.7	1.3	1.3	.7								6.0	5.4
WNW	.7	.7		2.0								3.3	9.0
NW	1.3	.7	.7	2.0								4.7	8.1
NNW	2.0	1.3	2.0	.7								6.0	5.8
VARBL													
CALM												15.3	
	22.0	36.0	18.0	8.7								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13709  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

10  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.7	7.3	2.0								12.7	6.2
NNE	1.3	2.0	3.3									6.7	6.1
NE			2.0									2.0	7.7
ENE			.7									.7	8.0
E	.7		2.7	1.3								4.7	9.1
ESE		1.3	.7									2.0	6.3
SE	1.3	1.3			.7							3.3	7.2
SSE		1.3	.7									2.0	6.3
S		.7	.7									2.0	10.3
SSW	4.0	2.7	4.7	1.3								12.7	6.2
SW	.7	5.3	2.0	1.3								9.3	6.8
WSW		4.7	2.7	2.0								9.3	7.3
W	1.3	1.3	2.0	3.3	.7							8.7	9.8
WNW			.7	1.3								2.0	11.3
NW				3.3	.7							4.0	13.5
NNW	3.3	1.3	5.3	3.3								13.3	8.2
VARBL													
CALM												4.7	
	13.3	24.7	35.3	20.0	2.0							100.0	7.6

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3		6.0	1.3								6.7	7.8
NNE	1.3	.7	1.3									3.3	5.4
NE		2.0	1.3	.7								4.0	7.5
ENE		4.0	.7	.7								5.3	6.6
E	.7	1.3	1.3	.7								4.0	6.5
ESE		1.3	1.3									2.7	6.5
SE		.7										.7	4.0
SSE		1.3		.7								2.0	7.7
S		2.7	2.0	.7								5.3	6.5
SSW	.7	2.0	2.0	2.7	.7							8.0	8.8
SW		1.3	2.0	4.0	.7							8.0	11.1
WSW	2.0	2.0	4.0	2.0								10.0	7.0
W	1.3	1.3	5.3	4.0								12.0	9.1
WNW		.7	.7	3.3								4.7	10.6
NW		2.7	2.0	4.0								8.7	9.7
NNW		2.7	4.7	2.7								10.0	8.4
VARBL													
CALM												2.7	
	7.3	26.7	34.7	27.3	1.3							100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.7	2.7	.7								6.7	7.0
NNE	1.3	4.0	.7		.7							6.7	6.1
NE	.7	2.0	1.3									4.0	6.2
ENE	1.3	1.3										2.7	3.8
E	.7	8.0	4.0									12.7	5.7
ESE	.7	.7	1.3									2.7	6.0
SE		3.3	1.3									4.7	6.1
SSE	1.3	2.0										3.3	4.2
S		1.3	6.7	2.0								10.0	8.7
SSW		1.3	2.7	2.7								6.7	9.0
SW	.7	.7	3.3	2.0								6.7	9.2
WSW		2.0	1.3									3.3	6.0
W	1.3	1.3	5.3	2.7								10.7	8.1
WNW	.7	.7	4.7	.7								4.7	8.4
NW	.7	.7	2.7	.7								4.7	8.1
NNW	.7	4.7	2.0	2.0								9.3	7.1
VARBL													
CALM												.7	
	10.7	36.7	36.0	13.3	.7							100.0	7.1

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

NOV  
MONTH

19  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	.7	.7	.7	.7							3.3	8.0
NNE	.7	.7										1.3	4.0
NE	2.0	1.3	1.3									4.7	5.0
ENE													
E	2.0	2.0	1.3	.7								6.0	5.6
ESE	2.0		1.3									3.3	5.2
SE	1.3											1.3	2.0
SSE	4.7	4.0	.7									9.3	3.6
S	5.3	8.7	4.0									18.0	4.8
SSW	2.7	1.3	1.3	.7								5.3	4.3
SW	4.0	2.7	1.3	.7								8.7	4.8
WSW	2.7	.7	1.3	.7								4.7	5.7
W	.7	2.7	.7	.7								4.0	6.0
WNW	2.0	.7	2.0	1.3								6.0	6.8
NW	.7	.7	1.3	.7								3.3	7.2
NNW		.7	3.3	1.3		.7						6.0	10.2
VARBL													
CALM												14.7	
	32.0	26.0	20.0	6.0	.7	.7						100.0	4.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

YEARS

73-77

NOV  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	2.0	1.3	1.3									4.7	5.1
NNE	.7		.7		.7							2.0	10.3
NE	1.3		.7									2.0	5.0
ENE	.7		.7									1.3	6.0
E	.7	.7	1.3	.7								3.3	8.0
ESE			2.0									2.0	8.3
SE	.7		.7									1.3	4.5
SSE	.7	2.7	2.7									3.3	4.6
S	2.7	6.7	2.7	.7								12.7	5.6
SSW	2.7	4.7	2.7	2.0								12.0	6.2
SW	6.0	4.0										10.0	3.0
WSW	1.3	2.0	2.0									5.3	5.9
W	2.0	1.3	2.7	.7								6.7	6.4
WNW			2.0									2.0	8.3
NW	1.3	1.3	2.7	1.3								6.7	7.5
NNW	.7	.7	2.7	2.0								6.0	9.2
VARL													
CALM												18.7	
	23.3	25.3	24.7	7.3	.7							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.4	3.0	.8	.1	.1						8.1	7.4
NNE	.7	1.4	.9	.2	.2							3.5	6.5
NE	.6	.7	1.2	.2								2.7	6.5
ENE	.2	.8	.4	.2								1.7	6.4
E	.7	1.9	1.0	.5								4.7	6.5
ESE	.5	.0	1.0									2.3	5.9
SE	.0	.9	.2		.1							1.8	5.3
SSE	1.1	1.7	.3	.1								3.2	4.5
S	1.4	3.7	2.3	.5								7.9	5.9
SSW	2.0	3.3	3.1	1.3	.1							10.4	6.2
SW	4.4	4.4	1.0	1.1	.1							11.6	5.1
WSW	1.7	2.5	1.8	.7								6.7	5.7
W	1.7	1.7	2.2	1.6	.1							7.6	7.4
WNW	.5	.5	1.4	1.2								3.7	8.7
NW	.7	.9	1.2	1.9	.1							5.1	9.0
NNW	.9	1.0	2.0	2.0		.1						7.4	8.3
VARBL													
CALM												11.5	
	19.5	29.5	26.3	12.3	.7	.2						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS

1200

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.4	3.2	.6								7.1	7.0
NNE		1.7	2.6									4.5	7.0
NE			1.3									1.3	8.0
ENE		1.3		.6								1.9	8.7
E	.0		1.3	.6	.6							3.2	9.6
ESE		.0										.6	5.0
SE			.0									.6	8.0
SSE	.6	.0	.6	.6								2.6	6.8
S	3.9	1.9	1.9	.6								8.4	4.9
SSW	3.9	1.9	3.2									9.0	5.5
SW	7.1	3.9	2.6			.6						14.2	4.8
WSW	1.3	2.6	1.9									5.8	5.4
W	2.6	1.3	1.9	1.3								7.1	6.3
WNW		1.3	4.5									5.8	8.0
NW	.6	1.3	1.9	2.6								6.5	9.3
NNW	.6	.6	.6	2.6	.6							5.2	11.3
VARBL													
CALM												16.1	
	21.3	22.6	26.4	9.7	1.3	.6						100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

0000

TOTAL NUMBER OF OBSERVATIONS

155

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	2.6	.6	.6							7.1	8.0
NNE	1.3	.6	1.9									3.9	5.5
NE	.6		.6									1.3	6.0
ENE		1.3	1.3									2.6	6.5
E			.6		.6							1.3	13.0
ESE		.6	.6									1.3	7.0
SE			2.6									2.6	8.5
SSE		.6	1.3									1.9	7.7
S	2.6	2.6	1.9									7.1	4.7
SSW		4.5	3.2	1.3								9.0	7.1
SW	4.5	2.6	1.3									8.4	3.8
WSW	2.6	.6	1.3									4.5	4.1
W	2.6	5.8	3.2									11.6	5.2
WNW	.6	3.2	1.3	.6								5.8	6.3
NW	.6	1.3	1.3	1.3								5.2	8.0
NNW	1.3	1.3	3.2	1.9								7.7	8.7
VARBL													
CALM												18.7	
	17.4	27.7	29.0	5.8	1.3							100.0	5.2



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

CONDITION

07  
HOURS (L.S.T.)

5702 SURFACE WINDS JAN 78

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.9	3.9	1.3								9.7	6.6
NNE	2.6	.9	1.3									4.5	4.7
NE	.6	1.3										1.9	4.3
ENE	.6	.6	.6									1.9	5.7
E		.6		.6								1.3	9.5
ESE		1.3	1.3									2.6	6.5
SE		2.6		.6								3.2	6.8
SSE	1.3	.6	.6	1.3								3.9	6.5
S	1.3	1.3	1.9									4.5	5.6
SSW	.6	4.3	3.2									8.4	6.3
SW	5.2	4.3	2.6	.6								12.9	4.8
WSW	1.9	3.2	1.9									7.1	4.6
W	.6	1.3										1.9	3.7
WNW	.6	.6	2.6	1.3	.6							5.8	9.3
NW	1.3	2.6	2.6	2.6								9.0	7.4
NNW	1.9	1.3	2.6	2.6	.6							9.0	8.6
VARBL													
CALM												12.3	
	20.6	29.7	25.2	11.0	1.3							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

155

12

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	3.8	3.2								12.3	8.6
NNE		1.3	1.9	.6								3.2	8.6
NE	.6	1.9	1.9	.6								5.2	7.0
ENE	1.3	2.6	1.3									5.2	5.6
E		1.3	1.3									3.2	7.2
ESE		.6		.6								1.9	12.3
SE		.6										.6	5.0
SSE		1.9	1.3	.6								3.9	7.7
S	1.3	2.6	3.9	1.3								9.0	7.1
SSW	1.3	3.2	4.5	1.3								10.3	7.1
SW	1.3	1.3	2.6	1.9								7.1	7.9
WSW	1.3	2.6	2.6	1.3								7.7	6.8
W	.6	2.6	1.9	.6								5.8	6.8
WNW		.6	1.9	3.9								6.3	11.3
NW	1.3	.6	4.5	1.9								8.4	8.6
NNW			.6	4.5								5.2	13.0
VARBL													
CALM												4.5	
	9.7	27.1	32.5	22.6	.6							100.0	7.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

13  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	4.3	3.9	2.6								12.3	7.4
NNE		1.3	1.3	.6								3.9	7.2
NE		1.3	1.3	.6								3.2	7.6
ENE		.6	1.3									1.9	7.0
E	2.6	2.6										5.2	3.9
ESE	.6	2.6	1.3		.6							5.2	7.4
SE													
SSE	.6	1.3	.6	.6								3.9	6.0
S	1.3	3.2	4.6									7.7	5.6
SSW		2.6	3.9	1.3								7.7	8.2
SW		3.2	1.3	3.9								9.0	9.4
WSW		2.6	4.3	3.9								11.0	8.9
W		1.3	4.3	1.3	.6							7.7	9.8
WNW			2.6	2.6								5.2	11.0
NW	1.3	1.3	1.3	2.6								6.3	8.7
NNW	.6		3.9	3.9								8.4	10.0
VARBL													
CALM												1.3	
	9.0	29.1	34.8	23.9	1.3							100.0	8.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

16  
HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.6	2.6	3.2	.6								9.0	7.4
NNE	1.3	3.2	3.2	.6								8.4	6.6
NE	1.3	1.3		1.3								3.9	6.5
ENE	1.9	2.6										4.5	4.3
E	.6	2.6	.6									3.9	5.0
ESE	1.3	.6	1.3									3.2	5.0
SE	.6	1.3	1.9									3.9	6.3
SSE	.6	1.3	1.9									3.9	6.7
S	1.3	.6	3.8	.6								8.4	7.8
SSW	1.3	.6	3.9									5.8	6.3
SW	1.9	1.9	1.3	3.2								8.4	8.1
WSW	1.3	1.3	2.6	1.3								6.5	7.5
W		3.2	3.2	1.3	.6							10.3	7.9
WNW		1.3	3.2	1.3								5.8	8.8
NW		1.3	2.6	.6								4.5	9.0
NNW	.6	2.6	3.2	1.3								7.7	7.6
VABL													
CALM												1.9	
	14.8	30.3	40.0	12.3	.6							100.0	7.0

TOTAL NUMBER OF OBSERVATIONS

158



2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

DEC  
MONTH

19  
HOURS (L.S.T.)

ALL WEATHER  
CLASS

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.3	2.0	1.9	1.3	.6							7.7	7.5
NNE	1.3	2.0	.6	.6								5.2	6.4
NE		1.3	1.9	.6								3.9	7.2
ENE	1.3	.6										1.9	3.0
E	1.9	1.9										3.9	3.5
ESE			1.3									1.3	7.5
SE	1.9		1.3	.6								3.9	6.2
SSE	.6	4.5										5.2	4.5
S	3.9	4.5	4.6	1.3								12.3	5.1
SSW	1.9	4.5	1.3	.6								8.4	5.5
SW	2.6	.6	1.9									5.2	5.1
WSW	2.6	1.9	.6	.6								5.8	4.4
W	3.9	1.3	.6	1.9	.6							8.4	6.6
WNW	.6	.6	4.6	.6								4.5	8.3
NW	1.3		1.9	.6								3.9	6.8
NNW		1.3	1.3	1.9								4.5	9.9
VARBL												14.2	
CALM												100.0	5.2
	25.2	28.4	20.0	10.3	1.9								

TOTAL NUMBER OF OBSERVATIONS

135

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER

CLASS

22

HOURS (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.9	2.0	4.5	1.3								10.3	7.3
NNE		.6	1.3		.6							2.6	9.3
NE		.6	1.3									1.9	8.3
ENE		1.3										1.3	5.5
E	2.0		2.0									5.2	5.5
ESE	.6	.6		.6								1.9	6.7
SE	1.3	.6	.6									2.6	4.5
SSE	.6	1.3	.6	.6								3.2	7.2
S	3.9	3.2	.6	.6								8.4	5.1
SSW	.6	1.3	2.0	1.3								5.8	8.0
SW	3.9	3.2	2.0	.6								11.0	5.1
WSW	2.6	3.2		.6								6.5	4.6
W	1.3	1.9	1.9	1.9								7.1	7.7
WNW	.6	.6	.6	.6								2.6	8.3
NW		1.3	2.0	1.9								5.8	9.7
NNW		.6	.6	1.3	.6							3.2	11.8
VARBL													
CALM												20.6	
	20.0	23.9	22.0	11.6	1.3							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCFANA, VIRGINIA

STATION NAME

73-77

YEARS

DEC  
MONTH

ALL WEATHER  
CLASS

ALL  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.9	3.9	1.5	.2							9.4	7.5
NNE	.8	1.5	1.7	.2	.2							4.5	6.7
NE	.4	1.0	1.0	.4								2.8	6.9
ENE	.6	1.4	.6	.1								2.7	5.6
E	1.0	1.2	.8	.2	.2							3.4	6.1
ESE	.3	.9	.7	.2	.2							2.3	7.2
SE	.5	.6	.9	.2								2.2	6.4
SSE	.6	1.6	.9	.5								3.5	6.4
S	2.5	2.5	2.7	.6								8.2	5.7
SSW	1.2	2.9	3.2	.7								8.1	6.7
SW	3.3	2.7	2.1	1.3		.1						9.5	5.9
WSW	1.7	2.3	1.9	1.0								6.9	6.2
W	1.5	2.5	2.2	1.0	.2							7.5	7.0
WNW	.3	1.0	2.4	1.4	.1							5.2	9.0
NW	.8	1.2	2.4	1.8								6.2	8.5
NNW	.6	1.0	2.0	2.5	.2							6.4	9.7
VARBL													
CALM												11.2	
	17.3	27.4	29.4	13.4	1.2	.1						100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

1240

2

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

ALL  
MOUTH

ALL WEATHER  
CLASS

ALL  
MOUTH (L.S.T.)

CONDITION

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	3.0	1.4	.1	.0						7.6	7.8
NNE	.7	1.3	1.8	.7	.1							4.6	7.4
NE	.5	1.4	1.5	.4			.0					3.9	6.8
ENE	.9	1.7	1.0	.1	.0							3.6	5.5
E	1.4	2.5	1.3	.3	.0							5.6	5.5
ESE	1.1	1.5	1.0	.1	.0							3.8	5.3
SE	1.0	1.6	1.1	.2	.0							3.9	5.5
SSE	1.5	1.7	.9	.2	.0							4.3	5.0
S	2.4	3.5	2.4	.6								8.9	5.6
SSW	1.4	3.2	3.0	1.0	.1							8.7	6.7
SW	3.4	3.3	4.2	.9	.0	.0						9.9	5.6
WSW	1.7	1.7	1.6	.6	.1	.0						5.9	5.9
W	1.2	1.4	1.7	.8	.1							5.2	6.9
WNW	.4	.6	1.1	.6	.1	.0						2.8	8.1
NW	.6	.8	1.3	1.0	.1	.0						3.8	8.3
NNW	.7	1.4	2.1	1.6	.2	.0						6.0	8.5
VARBL													
CALM												11.6	
	20.0	29.8	27.0	10.7	.9	.1	.0					100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

14608

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

# SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

ALL  
MONTH

INSTRUMENT

CLASS

ALL  
HOURS (L.S.T.)

CIG 200 TO 1400 FT W/VSBY 1/2 MI OR MORE,

CONDITION

AND/OR VSBY 1/2 TO 2-1/2 MI W/CIG 200 FT OR MORE

5702 SURFACE WINDS JAN 78

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	3.0	2.2	3.2	.4							13.6	8.5
NNE	1.2	1.5	4.2	2.3	.7							9.9	8.9
NE	.5	1.0	3.1	1.8								7.2	8.3
ENE	.5	1.2	1.2	.5	.1							3.5	7.2
E	1.2	1.4	1.0	1.1								5.6	6.9
ESE	1.0	1.2	.8	.4	.1							3.5	6.4
SE	.6	1.0	.8	.4	.1							3.4	6.4
SSE	.9	.9	.9	.4	.1							3.1	6.2
S	1.9	2.2	1.0	.6								6.3	5.7
SSW	1.4	1.9	1.3	.1	.1							4.8	5.4
SW	1.8	2.0	1.0	.3	.1							5.1	5.3
WSW	1.2	1.5	.8	.2								3.7	5.2
W	1.4	1.2	1.2	.3								4.1	5.8
WNW	.8	.7	.5	.2	.1							2.3	6.1
NW	.9	.9	1.2	.8	.2	.1						4.0	8.2
NNW	.7	1.5	3.7	2.6	.5							9.2	9.4
VARBL													
CALM												10.8	
	17.2	25.0	27.4	15.3	2.3	.1						100.0	6.6

TOTAL NUMBER OF OBSERVATIONS

1365



NWSD, Federal Building  
Asheville, N. C.

## PART D

### CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By month - all years and all hours combined
3. By month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

U. S. Weather Bureau and Navy stations did not report ceilings within the range 10,000 feet and higher prior to January 1949. Summaries prepared from data for these stations using the earlier period and data subsequent to January 1949 will be modified to limit ceilings to 10,000 feet. Short periods of record prior to 1949 for these stations will be eliminated from the summary. For Air Force stations, the "no ceiling" category includes clear and scattered conditions, and ceilings above 20,000 feet for period through June 1948. Beginning in July 1948 for Air Force stations and January 1949 for USWB and U. S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq 0$
NO CEILING													
$\geq 1800$													
$\geq 1500$					91.0								92.6
$\geq 1200$													
$\geq 1000$													
$\geq 900$													
$\geq 800$													
$\geq 700$													
$\geq 600$													
$\geq 500$										97.4			98.1
$\geq 400$													
$\geq 300$													
$\geq 200$													
$\geq 100$													
0					95.4		96.9			98.3			100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.

Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.



## PART D

### ADDITIONAL EXAMPLES

#### EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

#### EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $> 3$  miles, subtracted from 97.4 read from the table at the intersection of  $> 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $> 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover by tenths, plus mean sky cover, and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: # 1: Sky cover (total cloud amount) was not reported by U. S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: # 2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769

OCEANA, VIRGINIA

73-77

JAN

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING													
≥ 20000	51.6	52.9	54.2	55.5	55.5	55.5	55.5	55.5	55.5	56.1	56.1	56.1	56.1
≥ 18000	55.5	56.8	59.4	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3
≥ 16000	55.5	56.8	59.4	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3
≥ 14000	55.5	56.8	59.4	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3
≥ 12000	55.5	56.8	59.4	60.7	60.7	60.7	60.7	60.7	60.7	61.3	61.3	61.3	61.3
≥ 10000	56.8	58.1	60.7	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 9000	56.8	58.1	60.7	61.9	61.9	61.9	61.9	61.9	61.9	62.6	62.6	62.6	62.6
≥ 8000	60.7	63.9	66.5	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4
≥ 7000	61.3	64.5	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7	69.7
≥ 6000	61.3	65.2	67.7	69.7	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3
≥ 5000	62.6	66.5	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 4500	62.6	66.5	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6	71.6
≥ 4000	64.5	69.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8
≥ 3500	64.5	69.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.8	74.8	74.8	74.8
≥ 3000	65.8	71.6	74.8	76.8	76.8	76.8	76.8	76.8	76.8	77.4	77.4	77.4	77.4
≥ 2500	67.1	74.8	78.1	80.0	80.0	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 2000	67.1	75.5	78.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3
≥ 1800	67.1	75.5	78.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3
≥ 1500	67.7	77.4	82.6	84.5	84.5	84.5	84.5	84.5	84.5	85.2	85.2	85.2	85.2
≥ 1200	67.7	78.7	84.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1	87.1	87.1	87.1
≥ 1000	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 900	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 800	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 700	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 600	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 500	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 400	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 300	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 200	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
≥ 100	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
0	67.7	78.7	85.2	87.1	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		48.4	50.3	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	54.2
18000		51.6	53.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4
16000		51.6	53.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4
14000		51.6	53.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4
12000		51.6	53.6	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	57.4
10000		52.3	54.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	58.1
9000		54.8	56.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.7
8000		54.8	56.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.7
7000		56.8	60.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.8
6000		58.1	61.3	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	67.1
5000		58.7	61.9	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.7
4500		60.0	63.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7
4000		60.0	63.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.7
3500		61.9	67.1	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.8
3000		61.9	67.1	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.8
2500		62.6	67.7	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	76.1
2000		63.2	69.0	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	77.4
1800		65.2	72.3	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.7
1500		65.8	72.9	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	81.3
1200		67.7	75.5	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	84.5
1000		69.0	77.4	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	86.5
900		69.7	78.1	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1
800		69.7	78.1	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1
700		69.7	78.1	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	87.1
600		69.7	79.4	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	89.0
500		69.7	79.4	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.7
400		69.7	80.0	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0
300		69.7	80.0	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0
200		69.7	80.0	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	91.0
100		69.7	80.0	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.3
0		69.7	80.0	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	92.3

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769 STATION

OCEANA, VIRGINIA STATION NAME

73-77 YEARS

JAN MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		36.8	38.7	43.2	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 20000		40.7	44.5	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 18000		40.7	44.5	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 16000		40.7	44.5	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 14000		40.7	44.5	49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 12000		41.9	45.8	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 10000		46.5	50.3	55.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 9000		46.5	50.3	55.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 8000		49.7	54.2	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 7000		50.3	54.8	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 6000		51.0	55.5	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 5000		51.6	56.1	62.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 4500		51.6	56.1	62.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 4000		54.8	60.7	67.1	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500		56.1	61.9	68.4	69.7	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3000		58.7	65.2	71.6	72.9	72.9	72.9	73.6	73.6	73.6	73.6	73.6	73.6
≥ 2500		59.4	66.5	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 2000		59.4	66.5	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1800		59.4	66.5	74.2	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1	76.1
≥ 1500		61.3	69.0	78.1	80.0	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7
≥ 1200		61.9	70.3	80.0	82.6	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1000		61.9	70.3	80.0	82.6	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9
≥ 900		62.6	71.0	80.7	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5	84.5
≥ 800		62.6	72.3	81.9	85.2	85.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5
≥ 700		63.2	72.9	82.6	85.8	85.8	85.8	87.1	87.1	87.1	87.1	87.1	87.1
≥ 600		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 500		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 400		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 300		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 100		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 0		63.2	73.6	85.2	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7

155

TOTAL NUMBER OF OBSERVATIONS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

6011

JAN  
MONTH

10  
HOURS (L.S.T.)

73-77  
YEARS

OCEANA, VIRGINIA  
STATION NAME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING												
≥ 20000		43.9	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
18000		49.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
16000		49.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
14000		49.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
12000		49.0	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
10000		49.7	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
9000		51.6	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
8000		53.6	57.4	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
7000		54.2	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
6000		58.1	61.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
5000		58.7	62.6	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
4500		61.3	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
4000		62.6	66.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
3500		62.6	67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
3000		63.2	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
2500		64.5	69.7	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
2000		65.8	71.0	74.8	75.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8
1800		67.1	73.6	77.4	78.1	78.7	79.4	80.0	80.0	80.0	80.0	80.0
1500		67.7	74.2	78.7	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
1200		68.4	74.8	80.0	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3
1000		68.4	75.5	80.7	81.9	82.6	84.5	85.8	85.8	85.8	85.8	85.8
900		69.0	77.4	82.6	84.5	85.2	87.1	88.4	88.4	88.4	88.4	88.4
800		69.7	78.7	83.9	85.8	86.5	88.4	89.7	89.7	89.7	89.7	89.7
700		70.3	79.4	85.2	87.1	87.7	90.3	91.6	91.6	91.6	91.6	91.6
600		71.0	80.7	87.1	89.0	89.7	92.3	93.6	93.6	93.6	93.6	93.6
500		71.0	80.7	87.7	90.3	91.0	93.6	94.8	94.8	94.8	94.8	94.8
400		71.0	80.7	87.7	92.3	92.9	96.1	97.4	97.4	97.4	97.4	97.4
300		71.0	80.7	87.7	92.9	93.6	96.8	98.1	98.1	98.1	98.1	98.1
200		71.0	80.7	87.7	92.9	93.6	96.8	98.1	98.1	98.1	98.1	98.1
100		71.0	80.7	87.7	92.9	93.6	96.8	98.1	98.1	98.1	98.1	98.1
0		71.0	80.7	87.7	92.9	93.6	96.8	98.1	98.1	98.1	98.1	98.1

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

JAN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000	46.5	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
≥ 18000	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 14000	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000	54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000	57.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000	61.9	64.5	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 8000	62.6	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000	65.2	68.4	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 6000	67.7	71.0	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	68.4	71.6	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	68.4	71.6	72.3	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	69.0	72.3	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500	69.7	72.9	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3000	71.0	74.2	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2500	72.9	76.8	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 2000	74.8	80.0	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1800	74.8	80.0	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1500	74.8	80.0	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1200	78.7	85.8	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1000	78.7	85.8	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 900	79.4	87.1	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 800	79.4	87.1	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 700	79.4	87.1	89.0	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 600	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 300	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 200	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 100	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
0	80.0	87.7	89.7	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH16  
HOURS (LST)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		42.6	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9
≥ 20000		52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 16000		52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 14000		53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000		55.5	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000		60.7	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 9000		60.7	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 8000		64.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 7000		65.8	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 6000		65.8	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 5000		67.1	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4500		69.0	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000		69.0	72.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500		71.6	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000		74.8	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		75.5	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2000		76.8	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1800		76.8	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1500		78.1	83.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200		78.1	84.5	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000		78.1	85.2	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900		78.1	85.8	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800		78.1	85.8	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 700		78.1	86.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600		78.1	86.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 500		78.1	86.5	91.0	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 400		78.1	86.5	91.6	93.6	94.2	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 300		78.1	86.5	91.6	93.6	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200		78.1	86.5	91.6	93.6	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100		78.1	86.5	91.6	93.6	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0		78.1	86.5	91.6	93.6	94.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

DCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

19  
HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	46.5	47.7	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 18000	51.6	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 16000	51.6	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000	51.6	54.8	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 12000	52.3	55.5	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000	55.5	58.7	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000	55.5	58.7	59.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 8000	61.9	67.7	69.0	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 7000	62.6	69.0	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000	63.2	69.7	71.0	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 5000	64.5	72.3	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4500	64.5	72.3	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 4000	65.8	75.5	76.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3500	67.1	76.8	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3000	69.0	79.4	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 2500	69.7	80.7	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000	69.7	83.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1800	69.7	83.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1500	70.3	83.9	87.1	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1200	70.3	83.9	88.4	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000	71.0	85.8	90.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 900	71.0	85.8	90.3	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 800	71.0	85.8	91.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 400	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 300	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 200	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 100	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 0	71.0	85.8	91.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769	STATION
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OCEANA, VIRGINIA

73-77

STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE
STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE	STATION NAME	STATION NO.	STATION TYPE	STATION CLASS	STATION CODE

YEARS

JAN  
MONTH

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

HOURS ( L S T )

[illegible]

TOTAL NUMBER OF OBSERVATIONS

155

DIRNA VOCEANMET SMOS

SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

STATION  
13769

OCEANA, VIRGINIA

73-77

MONTH  
JAN

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		45.4	47.2	48.6	49.0	49.0	49.0	49.0	49.1	49.1	49.1	49.3	49.3
18000		50.7	53.2	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.5	55.5
16000		50.7	53.2	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.5	55.5
14000		50.7	53.2	54.8	55.2	55.2	55.2	55.2	55.2	55.2	55.2	55.5	55.5
12000		51.0	53.6	55.2	55.6	55.6	55.6	55.6	55.7	55.7	55.7	55.9	55.9
10000		52.2	54.8	56.5	56.9	56.9	56.9	56.9	57.0	57.0	57.0	57.3	57.3
9000		55.5	58.2	60.2	60.7	60.8	60.8	60.8	60.9	60.9	60.9	61.1	61.1
8000		55.7	58.4	60.4	61.0	61.1	61.1	61.1	61.1	61.1	61.1	61.4	61.4
7000		59.6	63.6	66.0	66.6	66.7	66.7	66.7	66.8	66.8	66.8	67.0	67.0
6000		60.7	64.8	67.2	67.9	68.0	68.0	68.0	68.1	68.1	68.1	68.3	68.3
5000		61.4	65.5	68.0	68.7	68.8	68.8	68.8	68.9	68.9	68.9	69.1	69.1
4500		62.4	66.9	69.7	70.4	70.5	70.5	70.5	70.6	70.6	70.6	70.8	70.8
4000		62.7	67.3	70.1	70.8	70.9	70.9	70.9	71.0	71.0	71.0	71.2	71.2
3500		64.2	69.8	72.8	73.7	73.8	73.9	73.9	74.0	74.0	74.0	74.2	74.2
3000		65.1	70.7	73.9	74.8	74.9	75.0	75.0	75.1	75.1	75.1	75.3	75.3
2500		67.0	73.1	76.6	77.7	77.7	78.0	78.0	78.1	78.1	78.1	78.3	78.3
2000		68.0	75.1	78.9	79.9	80.0	80.3	80.3	80.4	80.4	80.4	80.7	80.7
1800		68.7	76.3	80.4	81.5	81.5	81.9	81.9	81.9	81.9	81.9	82.2	82.2
1500		68.9	76.5	80.7	81.7	81.8	82.1	82.2	82.3	82.3	82.3	82.5	82.5
1200		70.2	78.6	83.7	85.2	85.2	85.9	86.0	86.1	86.1	86.1	86.3	86.3
1000		70.5	79.7	85.2	86.7	86.8	87.4	87.6	87.7	87.7	87.7	87.9	87.9
900		70.8	80.4	86.1	88.0	88.1	88.9	89.1	89.1	89.2	89.2	89.4	89.4
800		71.0	80.7	86.4	88.3	88.4	89.2	89.4	89.5	89.5	89.5	89.8	89.8
700		71.1	81.0	86.8	88.9	89.0	89.9	90.2	90.5	90.5	90.5	90.7	90.7
600		71.2	81.5	87.7	89.9	90.2	91.1	91.4	91.6	91.6	91.6	91.9	91.9
500		71.3	81.8	88.3	91.1	91.4	92.3	92.7	93.1	93.1	93.1	93.3	93.3
400		71.3	81.9	88.7	92.1	92.6	94.0	94.6	94.7	94.7	94.7	94.9	94.9
300		71.3	81.9	88.8	92.4	93.0	94.7	95.2	95.2	95.2	95.2	95.5	95.5
200		71.3	81.9	88.9	92.7	93.3	95.3	96.2	96.9	97.1	97.2	97.6	97.6
100		71.3	81.9	88.9	92.7	93.3	95.3	96.3	97.1	97.3	97.3	98.0	98.2
0		71.3	81.9	88.9	92.7	93.3	95.3	96.3	97.2	97.4	97.4	98.4	99.0

TOTAL NUMBER OF OBSERVATIONS

1240



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

FEB  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		57.5	60.3	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 20000		61.0	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 18000		61.0	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 16000		61.0	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 14000		61.0	64.5	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 12000		62.4	66.0	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 10000		64.5	68.1	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 9000		64.5	68.1	68.8	69.5	69.5	69.5	69.5	69.5	69.5	69.5
≥ 8000		66.7	70.9	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 7000		68.8	73.1	74.5	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 6000		69.5	73.8	75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 5000		72.3	76.6	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4500		72.3	76.6	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000		75.2	80.1	81.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3500		75.2	80.1	81.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 3000		77.3	82.3	84.4	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2500		78.0	83.0	85.1	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 2000		78.0	83.0	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1800		78.0	83.0	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500		78.7	83.7	87.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 1200		78.7	85.1	89.4	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 1000		80.1	86.5	90.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 900		80.1	86.5	90.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 800		80.1	87.2	91.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700		80.1	87.2	91.5	94.3	94.3	94.3	94.3	94.3	94.3	94.3
≥ 600		80.1	87.9	92.2	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 500		80.1	87.9	92.2	95.0	95.0	95.0	95.0	95.0	95.0	95.0
≥ 400		80.1	87.9	92.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 300		80.1	87.9	92.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 200		80.1	87.9	92.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 100		80.1	87.9	92.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5
0		80.1	87.9	92.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13759  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	49.7	53.2	53.9	53.9	53.9	53.9	54.6	54.6	54.6	54.6	54.6
≥ 20000	53.2	57.5	58.2	58.2	58.2	58.2	58.9	58.9	58.9	58.9	58.9
≥ 18000	53.2	57.5	58.2	58.2	58.2	58.2	58.9	58.9	58.9	58.9	58.9
≥ 16000	53.2	57.5	58.2	58.2	58.2	58.2	58.9	58.9	58.9	58.9	58.9
≥ 14000	53.2	57.5	58.2	58.2	58.2	58.2	58.9	58.9	58.9	58.9	58.9
≥ 12000	54.6	58.9	59.6	59.6	59.6	59.6	60.3	60.3	60.3	60.3	60.3
≥ 10000	58.2	62.4	63.1	63.1	63.1	63.1	63.8	63.8	63.8	63.8	63.8
≥ 9000	58.9	63.1	63.8	63.8	63.8	63.8	64.5	64.5	64.5	64.5	64.5
≥ 8000	63.1	69.5	70.2	70.2	70.2	70.2	70.9	70.9	70.9	70.9	70.9
≥ 7000	66.0	72.3	73.1	73.1	73.1	73.1	73.8	73.8	73.8	73.8	73.8
≥ 6000	66.7	73.1	73.8	73.8	73.8	73.8	74.5	74.5	74.5	74.5	74.5
≥ 5000	67.4	73.8	74.5	74.5	74.5	74.5	75.2	75.2	75.2	75.2	75.2
≥ 4500	68.8	75.2	75.9	75.9	75.9	75.9	76.6	76.6	76.6	76.6	76.6
≥ 4000	72.3	78.7	80.1	80.1	80.1	80.1	80.9	80.9	80.9	80.9	80.9
≥ 3500	73.1	79.4	80.9	80.9	80.9	80.9	81.6	81.6	81.6	81.6	81.6
≥ 3000	74.5	81.6	83.0	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7
≥ 2500	74.5	81.6	83.0	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7
≥ 2000	74.5	81.6	83.0	83.0	83.0	83.0	83.7	83.7	83.7	83.7	83.7
≥ 1800	75.2	82.3	83.7	83.7	83.7	83.7	84.4	84.4	84.4	84.4	84.4
≥ 1500	76.6	83.7	86.5	86.5	86.5	86.5	87.9	87.9	87.9	87.9	87.9
≥ 1200	76.6	83.7	86.5	86.5	86.5	86.5	87.9	87.9	87.9	87.9	87.9
≥ 1000	77.3	84.4	87.2	87.2	87.2	87.2	88.7	88.7	88.7	88.7	88.7
≥ 900	77.3	84.4	87.2	87.2	87.2	87.2	88.7	88.7	88.7	88.7	88.7
≥ 800	77.3	84.4	87.2	87.2	87.2	87.2	88.7	88.7	88.7	88.7	88.7
≥ 700	78.0	86.5	89.4	89.4	89.4	89.4	90.1	90.1	90.1	90.1	90.1
≥ 600	78.0	86.5	89.4	89.4	89.4	89.4	90.1	90.1	90.1	90.1	90.1
≥ 500	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8
≥ 400	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8
≥ 300	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8
≥ 200	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8
≥ 100	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8
0	78.7	87.2	90.1	90.1	90.1	90.1	90.8	90.8	90.8	90.8	90.8

TOTAL NUMBER OF OBSERVATIONS

141

# CEILING VERSUS VISIBILITY

STATION  
13769

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)

07

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		44.7	49.7	51.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 20000		48.2	53.2	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000		48.2	53.2	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 16000		48.2	53.2	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 14000		48.2	53.2	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 12000		49.7	55.3	58.2	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 10000		53.2	58.9	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 9000		53.2	58.9	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 8000		57.5	63.1	66.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
≥ 7000		61.7	67.4	70.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 6000		63.1	68.8	72.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000		63.8	70.2	73.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4500		64.5	70.9	74.5	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4000		66.7	73.1	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		67.4	73.8	78.7	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000		68.1	75.2	80.9	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2500		68.1	75.2	80.9	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2000		68.8	77.3	83.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1800		68.8	77.3	83.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
≥ 1500		69.5	78.0	83.7	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200		69.5	79.4	85.1	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1000		70.2	80.1	85.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 900		70.2	80.1	85.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 800		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 700		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 600		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 500		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 400		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 300		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 200		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 100		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 0		70.9	80.9	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1

TOTAL NUMBER OF OBSERVATIONS

141

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

FEB

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	50.4	51.8	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
≥ 18000	58.2	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 16000	58.9	60.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
≥ 14000	59.6	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 12000	60.3	61.7	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 10000	62.4	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 9000	64.5	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000	64.5	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 7000	66.7	69.3	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
≥ 6000	68.8	71.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 5000	69.5	72.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 4500	72.3	75.2	76.6	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000	73.1	75.9	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500	74.5	78.7	80.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 3000	74.5	78.7	80.1	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
≥ 2500	76.6	80.9	83.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 2000	76.6	80.9	83.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800	78.0	82.3	84.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1500	75.0	82.3	84.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1200	79.4	83.7	85.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1000	80.1	84.4	86.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 900	80.1	84.4	86.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 800	80.1	84.4	86.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 700	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 600	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 500	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 400	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 300	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 200	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 100	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
0	80.9	85.1	87.9	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8

TOTAL NUMBER OF OBSERVATIONS

141

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# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000		53.9	54.6	54.6	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 18000		57.5	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		57.5	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 14000		57.5	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 12000		58.2	59.6	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 10000		59.6	61.0	61.0	61.7	61.7	61.7	61.7	61.7	61.7	61.7
≥ 9000		64.5	66.0	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 8000		65.3	66.7	66.7	67.4	67.4	67.4	67.4	67.4	67.4	67.4
≥ 7000		68.1	70.2	70.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 6000		70.2	72.3	72.3	74.5	74.5	74.5	74.5	74.5	74.5	74.5
≥ 5000		70.9	73.1	73.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4500		73.1	75.2	75.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000		73.8	75.9	75.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500		73.8	76.6	76.6	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000		75.2	78.0	78.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 2500		76.6	80.1	80.1	83.0	83.0	83.0	83.0	83.0	83.0	83.0
≥ 2000		76.6	80.9	82.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800		78.0	82.3	83.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500		80.9	85.1	87.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1200		80.9	85.1	87.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 1000		80.9	85.8	87.9	90.8	91.5	92.2	92.2	92.2	92.2	92.2
≥ 900		81.6	86.5	88.7	91.5	92.2	92.9	92.9	92.9	92.9	92.9
≥ 800		81.6	86.5	88.7	91.5	92.2	92.9	92.9	92.9	92.9	92.9
≥ 700		81.6	86.5	88.7	91.5	92.2	92.9	93.6	93.6	93.6	93.6
≥ 600		81.6	86.5	89.4	92.9	93.6	94.3	95.7	95.7	95.7	95.7
≥ 500		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2
≥ 400		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2
≥ 300		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2
≥ 200		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2
≥ 100		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2
0		81.6	86.5	89.4	93.6	94.3	95.0	97.2	97.2	97.2	97.2

TOTAL NUMBER OF OBSERVATIONS

141



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 0
NO CEILING											
≥ 20000		50.4	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
≥ 18000		58.2	58.9	58.9	59.6	59.6	59.6	59.6	59.6	59.6	59.6
≥ 16000		58.9	59.6	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 14000		58.9	59.6	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3
≥ 12000		61.7	62.4	62.4	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 10000		63.1	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 9000		64.5	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 8000		69.5	70.9	70.9	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 7000		70.2	72.3	72.3	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 6000		70.9	73.1	73.1	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000		73.1	75.2	75.2	75.9	75.9	75.9	75.9	75.9	75.9	75.9
≥ 4500		73.1	75.2	75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4000		74.5	76.6	76.6	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500		75.9	78.0	78.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000		78.7	80.9	81.6	83.0	83.7	84.4	84.4	84.4	84.4	84.4
≥ 2500		79.4	81.6	82.3	83.7	84.4	85.1	85.1	85.1	85.1	85.1
≥ 2000		80.1	82.3	83.0	85.1	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1800		80.1	82.3	83.0	85.1	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1500		80.9	83.7	84.4	87.9	88.7	89.4	89.4	89.4	89.4	89.4
≥ 1200		80.9	83.7	84.4	87.9	88.7	89.4	89.4	89.4	89.4	89.4
≥ 1000		81.6	85.1	86.5	90.1	90.8	91.5	91.5	91.5	91.5	91.5
≥ 900		81.6	85.1	86.5	90.1	90.8	91.5	91.5	91.5	91.5	91.5
≥ 800		81.6	85.1	86.5	90.1	90.8	91.5	91.5	91.5	91.5	91.5
≥ 700		81.6	85.1	86.5	90.1	90.8	91.5	91.5	91.5	91.5	91.5
≥ 600		81.6	85.1	86.5	91.5	92.2	92.9	93.6	94.3	94.3	94.3
≥ 500		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5
≥ 400		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5
≥ 300		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5
≥ 200		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5
≥ 100		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5
0		81.6	85.1	86.5	92.2	92.9	93.6	94.3	95.0	95.7	96.5

TOTAL NUMBER OF OBSERVATIONS

141

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L S T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		53.2	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000		56.7	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 16000		56.7	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 14000		56.7	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
≥ 12000		57.5	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
≥ 10000		59.6	63.8	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 9000		64.5	68.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 8000		64.5	68.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 7000		67.4	71.6	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
≥ 6000		68.1	72.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
≥ 5000		68.8	73.8	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
≥ 4500		70.2	75.2	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000		70.9	75.9	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500		72.3	78.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 3000		72.3	78.0	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1	80.1
≥ 2500		73.8	80.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 2000		75.2	82.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
≥ 1800		77.3	84.4	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
≥ 1500		78.0	85.1	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1200		78.0	85.1	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 1000		78.0	85.1	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
≥ 900		78.7	85.8	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 800		78.7	86.5	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
≥ 700		79.4	87.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
≥ 600		79.4	87.2	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
≥ 500		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 400		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 300		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 200		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
≥ 100		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
0		79.4	87.9	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2

TOTAL NUMBER OF OBSERVATIONS

141

1275456181

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

FEB

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		56.0	57.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
18000		59.6	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
16000		59.6	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
14000		59.6	61.7	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
12000		61.0	63.1	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
10000		63.1	66.0	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
9000		63.8	66.7	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
8000		66.7	70.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
7000		66.7	70.2	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
6000		67.4	70.9	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
5000		70.2	75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
4500		70.2	75.2	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
4000		73.8	79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3500		73.8	79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
3000		75.9	81.6	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
2500		76.6	83.0	84.4	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2000		76.6	83.7	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1800		76.6	83.7	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1500		78.0	85.1	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
1200		78.0	85.1	87.2	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
1000		78.0	85.1	87.9	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
900		78.0	86.5	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
800		78.0	86.5	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
700		78.0	86.5	89.4	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
600		78.0	86.5	90.8	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
500		78.0	86.5	91.5	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
400		78.0	87.2	92.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
300		76.0	87.2	92.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
200		78.0	87.2	92.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
100		78.0	87.2	92.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
0		78.0	87.2	92.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3

141

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY



AD-A063 837

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) OCEANA, --ETC(U)  
JUL 78

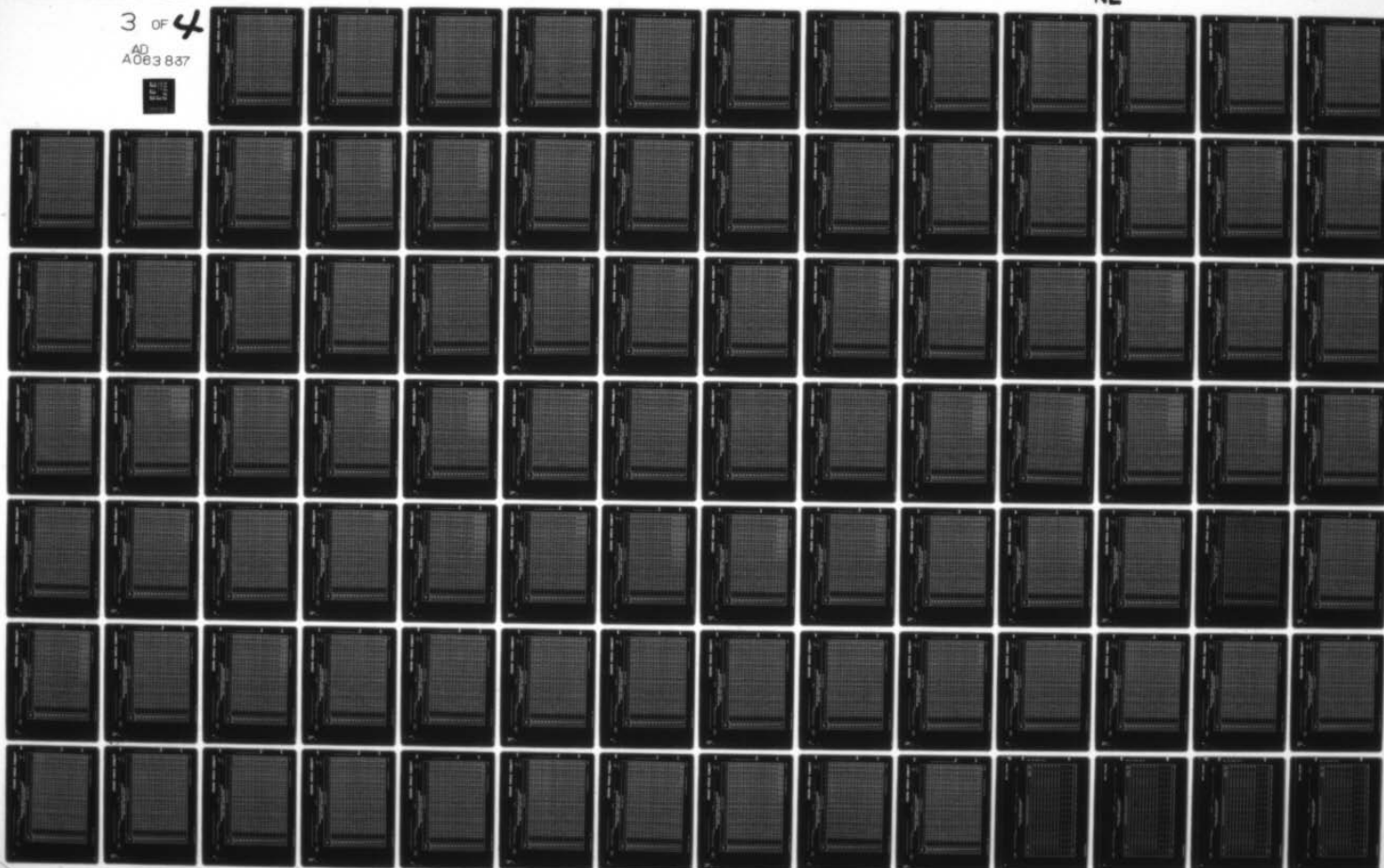
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3 OF 4

AD  
A063 837





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3 OF 4

AD  
A063 837



CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

FEB

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000	52.0	54.3	55.3	55.3	55.2	55.2	55.3	55.3	55.3	55.3	55.3	55.4	55.4	55.4	55.5
≥ 18000	56.6	59.4	60.4	60.4	60.7	60.7	60.8	60.8	60.8	60.8	60.8	60.9	60.9	60.9	61.0
≥ 16000	56.7	59.6	60.6	60.6	60.9	60.9	61.0	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.2
≥ 14000	56.8	59.7	60.6	60.6	61.0	61.0	61.1	61.1	61.1	61.1	61.1	61.2	61.2	61.2	61.3
≥ 12000	57.1	59.9	60.9	60.9	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5	61.5	61.5	61.6
≥ 10000	58.9	61.8	62.8	62.8	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.4	63.4	63.5
≥ 9000	62.0	65.0	66.0	66.0	66.4	66.4	66.5	66.5	66.5	66.5	66.5	66.6	66.6	66.6	66.8
≥ 8000	62.4	65.4	66.4	66.4	66.8	66.8	66.9	66.9	66.9	66.9	66.9	67.0	67.0	67.0	67.2
≥ 7000	65.7	69.3	70.6	70.6	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.7
≥ 6000	67.6	71.5	72.8	72.8	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.5	73.5	73.5	73.7
≥ 5000	68.4	72.3	73.7	73.7	74.3	74.3	74.4	74.4	74.4	74.4	74.4	74.5	74.5	74.5	74.7
≥ 4500	70.3	74.6	76.0	76.0	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.9	76.9	76.9	77.0
≥ 4000	70.8	75.1	76.5	76.5	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.7
≥ 3500	72.9	77.7	79.3	79.3	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.7
≥ 3000	73.4	78.2	80.0	80.0	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.1	81.1	81.1	81.3
≥ 2500	75.2	80.3	82.4	82.4	83.3	83.3	83.4	83.6	83.7	83.7	83.7	83.8	83.8	83.8	84.0
≥ 2000	75.6	81.0	83.2	83.2	84.3	84.3	84.4	84.6	84.7	84.7	84.7	84.8	84.8	84.8	84.9
≥ 1800	76.4	82.1	84.5	84.5	86.1	86.1	86.2	86.4	86.4	86.4	86.4	86.5	86.5	86.5	86.7
≥ 1500	76.6	82.3	84.7	84.7	86.3	86.3	86.4	86.5	86.6	86.6	86.6	86.7	86.7	86.7	86.9
≥ 1200	77.8	83.5	86.4	86.4	88.4	88.4	88.5	88.7	88.7	88.7	88.7	88.8	88.8	88.8	89.0
≥ 1000	77.8	84.0	86.8	86.8	89.0	89.0	89.1	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.7
≥ 900	78.3	84.6	87.6	87.6	89.9	89.9	90.1	90.3	90.6	90.7	90.7	90.8	90.8	90.9	91.1
≥ 800	78.5	85.0	88.1	88.1	90.4	90.4	90.6	91.0	91.2	91.3	91.3	91.4	91.4	91.5	91.7
≥ 700	78.6	85.4	88.6	88.6	91.0	91.0	91.1	91.5	91.8	92.0	92.0	92.1	92.1	92.2	92.4
≥ 600	78.8	85.6	88.9	88.9	91.4	91.4	91.6	91.9	92.3	92.6	92.6	92.7	92.7	92.8	93.0
≥ 500	78.8	85.7	89.5	89.5	92.2	92.2	92.4	92.9	93.8	94.0	94.0	94.1	94.1	94.2	94.3
≥ 400	78.9	85.9	89.7	89.7	92.7	92.7	92.9	93.6	94.8	95.0	95.1	95.2	95.2	95.3	95.5
≥ 300	78.9	86.0	90.0	90.0	93.4	93.4	93.5	94.5	96.1	96.4	96.6	96.7	96.7	96.9	97.1
≥ 200	78.9	86.0	90.0	90.0	93.5	93.5	93.8	95.0	96.7	97.2	97.5	97.6	97.6	97.8	98.1
≥ 100	78.9	86.0	90.0	90.0	93.5	93.5	93.8	95.0	96.7	97.5	97.9	98.1	98.1	98.4	98.8
0	78.9	86.0	90.0	90.0	93.5	93.5	93.8	95.0	96.7	97.5	97.9	98.3	98.3	98.9	99.1
	78.9	86.0	90.0	90.0	93.5	93.5	93.8	95.0	96.7	97.5	97.9	98.3	98.3	98.9	100.0

TOTAL NUMBER OF OBSERVATIONS

1129

1225

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		50.3	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 18000		53.6	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 16000		53.6	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 14000		53.6	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 12000		56.8	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 10000		58.7	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 9000		59.4	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 8000		63.2	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 7000		64.5	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 6000		64.5	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 5000		65.2	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4500		65.2	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 4000		68.4	74.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500		69.0	74.8	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000		69.7	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 2500		71.6	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2000		72.3	79.4	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1800		72.3	79.4	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 1500		74.2	81.9	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1200		74.2	82.6	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000		75.5	83.9	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 900		75.5	83.9	86.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800		75.5	83.9	83.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700		75.5	83.9	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 600		75.5	83.9	86.4	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0
≥ 500		75.5	83.9	88.4	91.0	91.0	91.0	91.6	92.3	92.3	92.3	92.3
≥ 400		75.5	84.5	89.7	92.3	92.3	92.3	92.9	94.2	94.2	94.2	94.2
≥ 300		75.5	84.5	89.7	92.3	92.3	92.3	92.9	94.2	94.2	94.2	94.2
≥ 200		75.5	84.5	89.7	92.3	92.3	92.3	93.6	94.8	94.8	94.8	94.8
≥ 100		75.5	84.5	89.7	92.3	92.3	92.3	93.6	94.8	94.8	94.8	94.8
0		75.5	84.5	89.7	92.3	92.3	92.3	93.6	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

STATION  
13769

STATION NAME  
OCEANA, VIRGINIA

73-77

YEARS

MAR  
MONTH

04  
HOURS (L S T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		46.5	50.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		50.3	54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 16000		50.3	54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000		50.3	54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 12000		51.0	54.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000		53.6	57.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 9000		53.6	57.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 8000		59.4	63.9	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 7000		60.7	65.8	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 6000		60.7	65.8	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 5000		62.6	68.4	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4500		62.6	68.4	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4000		63.9	71.6	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 3500		64.5	72.3	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3000		67.1	75.5	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500		67.7	76.1	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000		68.4	78.1	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1800		68.4	78.1	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1600		69.0	79.4	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1400		69.0	79.4	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1200		69.0	80.7	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 900		69.0	80.7	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 800		69.7	81.3	85.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 700		70.3	81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600		70.3	81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 500		70.3	81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 400		70.3	81.9	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 300		70.3	82.6	87.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 200		70.3	82.6	87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 100		70.3	82.6	87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
0		70.3	82.6	87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3

TOTAL NUMBER OF OBSERVATIONS 155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

MAR

YEARS

MONTH

07

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														≥ 0
≥ 20000		37.4	41.3	42.6	43.9	43.9	43.9	43.9	43.9	44.5	44.5	44.5	44.5	44.5
≥ 18000		43.9	48.4	49.7	51.0	51.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6
≥ 16000		43.9	48.4	49.7	51.0	51.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6
≥ 14000		43.9	48.4	49.7	51.0	51.0	51.0	51.0	51.0	51.6	51.6	51.6	51.6	51.6
≥ 12000		45.2	49.7	51.0	52.3	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6	53.6
≥ 10000		48.4	52.9	54.2	56.1	56.8	56.8	56.8	56.8	57.4	57.4	57.4	57.4	57.4
≥ 9000		49.0	53.6	54.8	56.6	58.1	58.1	58.1	58.1	58.7	58.7	58.7	58.7	58.7
≥ 8000		55.5	60.0	61.9	64.5	65.8	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5
≥ 7000		56.1	60.7	62.6	65.2	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 6000		56.1	60.7	62.6	65.2	66.5	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 5000		56.8	61.3	63.9	66.5	67.7	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 4500		56.8	61.3	63.9	66.5	67.7	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 4000		56.8	61.3	63.9	66.5	67.7	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 3500		57.4	63.2	66.5	69.7	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 3000		57.4	63.2	66.5	69.7	71.0	71.6	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 2500		58.7	65.2	69.0	72.3	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 2000		60.0	66.5	71.6	74.8	76.1	76.1	76.1	76.1	76.7	76.7	76.7	76.7	76.7
≥ 1800		60.0	66.5	71.6	74.8	76.1	76.1	76.1	76.1	76.7	76.7	76.7	76.7	76.7
≥ 1600		61.3	68.4	73.6	76.8	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7	78.7
≥ 1400		61.9	69.0	74.8	78.1	79.4	79.4	79.4	79.4	80.7	80.7	80.7	80.7	80.7
≥ 1200		62.6	69.7	75.5	78.7	80.0	80.0	80.0	80.0	81.9	81.9	81.9	81.9	81.9
≥ 1000		62.6	69.7	75.5	78.7	80.0	80.0	80.0	80.0	81.9	81.9	81.9	81.9	81.9
≥ 900		62.6	69.7	75.5	78.7	80.0	80.0	80.0	80.0	81.9	81.9	81.9	81.9	81.9
≥ 800		62.6	70.3	76.8	80.0	81.3	81.3	81.3	81.3	83.2	83.2	83.2	83.2	83.2
≥ 700		62.6	70.3	76.8	80.0	81.3	81.3	81.3	81.3	83.2	83.2	83.2	83.2	83.2
≥ 600		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 500		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 400		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 300		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 200		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 100		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5
≥ 0		62.6	71.0	78.1	81.9	83.2	83.2	83.2	83.2	84.5	84.5	84.5	84.5	84.5

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		41.9	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5
≥ 18000		51.0	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 16000		51.0	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 14000		51.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 12000		51.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 10000		54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 9000		56.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000		57.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 7000		60.7	64.5	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 6000		61.3	65.2	65.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 5000		61.9	65.8	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4500		63.2	67.1	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4000		63.2	67.1	67.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 3500		64.5	68.4	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000		65.2	69.0	69.7	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 2500		66.5	71.6	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 2000		69.0	74.0	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1800		69.0	74.0	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1500		69.0	74.0	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 1200		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 900		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 800		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 700		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 600		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 500		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 400		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 300		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 200		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 100		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
0		72.3	78.1	80.0	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		38.7	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 20000		51.0	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 18000		51.0	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 16000		51.0	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 14000		51.0	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 12000		53.6	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 10000		59.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 9000		59.4	60.7	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 8000		63.2	64.5	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 7000		64.5	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 6000		64.5	65.8	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 5000		65.2	66.5	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 4500		65.2	66.5	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4000		66.5	68.4	69.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3500		68.4	70.3	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3000		73.6	75.5	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500		76.8	79.4	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000		78.1	81.3	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 1800		78.1	81.3	83.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500		79.4	83.2	85.8	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1200		79.4	83.2	85.8	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1000		79.4	83.2	85.8	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 900		79.4	83.2	85.8	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 800		79.4	83.2	85.8	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 700		79.4	83.2	86.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 600		79.4	83.2	86.5	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 500		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 300		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 200		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 100		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
0		79.4	83.2	87.1	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3

TOTAL NUMBER OF OBSERVATIONS

135

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR

MONTH

16

HOURS (L S T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		38.1	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
≥ 18000		45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 16000		45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
≥ 14000		47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 12000		49.7	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 10000		53.6	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 9000		54.2	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 8000		58.1	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 7000		58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 6000		58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 5000		58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 4500		59.4	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 4000		63.2	66.5	67.1	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4
≥ 3500		66.5	69.7	70.3	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.3
≥ 3000		70.3	74.2	75.5	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500		72.9	76.8	78.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2000		74.2	78.1	80.0	82.6	82.6	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1800		74.8	78.7	80.7	83.2	83.2	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1500		75.5	80.0	81.5	85.2	85.2	86.5	86.5	86.5	87.1	87.1	87.1
≥ 1200		75.5	80.7	83.2	86.5	86.5	87.7	87.7	87.7	88.4	88.4	88.4
≥ 1000		75.5	81.3	83.9	87.1	87.1	89.7	89.7	89.7	90.3	90.3	90.3
≥ 900		75.5	81.3	83.9	87.1	87.7	89.7	89.7	89.7	90.3	90.3	90.3
≥ 800		75.5	81.3	83.9	87.1	87.7	89.7	89.7	89.7	90.3	90.3	90.3
≥ 700		75.5	81.3	84.5	87.7	89.0	91.0	91.0	91.0	91.6	92.3	92.3
≥ 600		75.5	81.3	84.5	87.7	89.0	91.0	91.0	91.6	92.3	92.3	92.3
≥ 500		75.5	81.3	85.2	88.4	89.7	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400		75.5	81.3	85.2	88.4	89.7	92.3	92.3	92.3	92.3	92.3	92.3
≥ 300		75.5	81.3	85.8	89.0	90.3	94.2	94.2	94.2	94.8	94.8	94.8
≥ 200		75.5	81.3	85.8	89.0	91.0	94.8	94.8	94.8	96.8	96.8	96.8
≥ 100		75.5	81.3	85.8	89.0	91.0	94.8	94.8	94.8	97.4	97.4	97.4
≥ 0		75.5	81.3	85.8	89.0	91.0	94.8	94.8	94.8	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS 155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		40.0	40.0	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
18000		49.0	50.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
16000		49.0	50.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
14000		49.0	50.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
12000		52.3	53.6	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
10000		55.5	57.4	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
9000		56.8	58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
8000		61.9	65.2	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
7000		63.9	67.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
6000		63.9	67.1	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
5000		65.2	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
4500		65.2	68.4	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
4000		69.7	73.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
3500		71.0	74.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3000		74.2	78.1	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2500		76.1	80.7	84.5	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2000		76.8	81.3	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1800		76.8	81.3	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
1500		77.4	81.9	85.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1200		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
1000		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
900		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
800		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
700		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
600		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
500		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
400		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
300		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
200		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
100		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
0		77.4	82.0	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

0000

5703 CEILING VERSUS VISIBILITY JAN 78

0000

13769

OCEANA, VIRGINIA

73-77

MAR

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING		49.0	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000		51.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 18000		51.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 16000		51.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 14000		51.6	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
≥ 12000		53.6	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 10000		58.1	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 9000		59.4	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 8000		63.9	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000		64.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 6000		65.8	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 5000		66.5	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 4500		66.5	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 4000		69.0	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500		70.3	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 3000		72.9	79.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500		74.2	81.3	81.9	82.6	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 2000		74.8	82.6	84.5	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1800		74.8	82.6	84.5	85.2	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500		75.5	83.9	85.8	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 1200		75.5	84.5	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1000		75.5	84.5	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 900		75.5	84.5	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 800		76.1	85.2	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700		76.1	85.2	87.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600		76.1	85.2	87.1	89.7	89.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6
≥ 500		76.1	85.2	87.7	90.3	90.3	92.3	93.6	93.6	93.6	93.6	93.6	93.6
≥ 400		76.1	85.2	87.7	91.0	91.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2
≥ 300		76.1	85.2	87.7	91.0	91.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2
≥ 200		76.1	85.2	87.7	91.0	91.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2
≥ 100		76.1	85.2	87.7	91.0	91.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2
0		76.1	85.2	87.7	91.0	91.0	92.9	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAR

MONTH

ALL

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	42.7	45.2	46.1	46.2	46.2	46.2	46.2	46.2	46.3	46.3	46.3	46.3	46.3
≥ 20000	49.5	52.3	53.2	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5
≥ 18000	49.5	52.3	53.2	53.4	53.4	53.4	53.4	53.4	53.5	53.5	53.5	53.5	53.5
≥ 16000	49.6	52.4	53.3	53.5	53.5	53.5	53.5	53.5	53.6	53.6	53.6	53.6	53.6
≥ 14000	49.8	52.6	53.5	53.6	53.6	53.6	53.6	53.6	53.7	53.7	53.7	53.7	53.7
≥ 12000	52.0	54.9	55.8	56.0	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000	55.4	58.6	59.5	59.8	59.9	59.9	59.9	59.9	60.0	60.0	60.0	60.0	60.0
≥ 9000	56.1	59.4	60.2	60.6	60.7	60.7	60.7	60.7	60.8	60.8	60.8	60.8	60.8
≥ 8000	60.7	64.4	65.6	66.1	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4	66.4
≥ 7000	61.8	65.6	66.7	67.3	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5
≥ 6000	62.0	65.8	67.0	67.6	67.7	67.7	67.7	67.7	67.8	67.8	67.8	67.8	67.8
≥ 5000	62.9	66.9	68.2	69.0	69.1	69.1	69.1	69.1	69.3	69.3	69.4	69.4	69.4
≥ 4500	63.0	67.0	68.5	69.4	69.5	69.5	69.5	69.5	69.7	69.7	69.8	69.8	69.8
≥ 4000	65.2	70.0	71.7	72.7	72.8	73.0	73.0	73.0	73.1	73.1	73.1	73.1	73.1
≥ 3500	66.5	71.4	73.2	74.3	74.4	74.7	74.7	74.7	74.8	74.8	74.8	74.8	74.8
≥ 3000	69.0	74.2	76.3	77.5	77.7	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1
≥ 2500	70.7	76.1	78.4	79.8	79.9	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4
≥ 2000	71.6	77.7	80.4	81.9	82.1	82.6	82.6	82.6	82.7	82.7	82.7	82.7	82.7
≥ 1800	71.8	77.8	80.6	82.2	82.3	82.8	82.8	82.8	83.0	83.0	83.0	83.0	83.0
≥ 1500	72.9	79.4	82.3	84.1	84.3	84.8	84.8	84.8	85.1	85.1	85.1	85.1	85.1
≥ 1200	73.2	80.0	83.4	85.4	85.9	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1000	73.4	80.5	84.0	85.9	86.2	87.1	87.1	87.1	87.3	87.3	87.6	87.6	87.6
≥ 900	73.4	80.5	84.1	86.1	86.5	87.3	87.3	87.3	87.6	87.6	87.9	87.9	87.9
≥ 800	73.6	80.8	84.5	86.7	87.1	88.0	88.0	88.2	88.6	88.6	88.6	88.6	88.6
≥ 700	73.6	80.9	85.0	87.3	87.8	88.7	88.7	89.1	89.6	89.6	89.6	89.6	89.6
≥ 600	73.7	81.1	85.2	87.8	88.4	89.4	89.4	90.2	90.7	90.7	90.7	90.7	90.7
≥ 500	73.7	81.1	85.4	88.3	89.0	90.4	90.4	91.2	91.8	91.8	91.8	91.8	91.8
≥ 400	73.7	81.1	85.7	88.7	89.5	91.2	91.2	92.3	93.0	93.0	93.0	93.0	93.0
≥ 300	73.7	81.2	85.8	88.9	89.7	91.5	91.5	92.9	93.2	94.0	94.1	94.2	94.2
≥ 200	73.7	81.2	85.8	89.0	89.9	91.8	91.8	93.4	93.6	94.6	94.9	95.9	96.1
≥ 100	73.7	81.2	85.8	89.0	89.9	91.8	91.8	93.4	93.6	94.6	95.2	96.5	97.7
0	73.7	81.2	85.8	89.0	89.9	91.8	91.8	93.4	93.6	94.6	95.2	96.5	97.7

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		58.0	61.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	65.3	65.3
18000		63.3	67.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3
16000		63.3	67.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3
14000		63.3	67.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	71.3	71.3
12000		66.0	70.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	74.0	74.0
10000		68.0	72.0	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	76.0	76.0
9000		69.3	73.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	77.3	77.3
8000		74.0	78.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.7	82.7
7000		76.7	80.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	85.3	85.3
6000		76.7	80.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	85.3	85.3
5000		77.3	82.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.7	86.7
4500		77.3	82.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.7	86.7
4000		78.0	82.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	87.3	87.3
3500		79.3	84.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.7	88.7
3000		80.0	86.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.7	90.7
2500		80.0	86.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	91.3	91.3
2000		81.3	88.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7
1800		81.3	88.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.7	92.7
1500		81.3	89.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	95.3	95.3
1200		81.3	89.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	95.3	95.3
1000		81.3	89.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	95.3	95.3
900		81.3	90.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	96.7	96.7
800		81.3	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	97.3	97.3
700		81.3	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	97.3	97.3
600		81.3	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	97.3	97.3
500		81.3	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	97.3	97.3
400		81.3	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	97.3	97.3
300		82.0	90.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.7	98.7
200		82.0	90.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.7	98.7
100		82.0	90.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.7	98.7
0		82.0	90.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769      OCEANA, VIRGINIA      73-77      YEARS      APR      MONTH      04      HOURS (LST)

STATION      STATION NAME

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		59.3	65.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 20000		62.7	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 18000		62.7	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 16000		62.7	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 14000		62.7	69.3	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 12000		64.0	71.3	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 10000		67.3	75.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 9000		67.3	75.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 8000		69.3	77.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000		70.0	78.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 6000		71.3	80.0	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000		72.0	80.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4500		72.7	81.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000		74.0	84.0	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 3500		74.7	84.7	87.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 3000		74.7	86.7	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500		75.3	87.3	90.0	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000		76.7	88.7	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800		76.7	88.7	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500		77.3	90.0	92.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600		77.3	90.7	93.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 500		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 300		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 200		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 0		77.3	91.3	94.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS      150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)07  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		46.7	56.7	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 20000		52.0	62.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 18000		52.0	62.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 16000		52.0	62.7	66.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 14000		52.7	63.3	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 12000		53.3	64.0	67.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 10000		56.7	67.3	70.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 9000		56.7	68.7	72.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000		58.7	70.7	74.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000		60.7	72.7	76.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 6000		60.7	72.7	76.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000		62.7	75.3	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4500		62.7	75.3	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 4000		64.0	77.3	80.7	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500		65.3	78.7	82.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3000		66.7	82.0	86.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500		67.3	83.3	87.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000		67.3	84.0	88.0	91.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800		67.3	84.0	88.7	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500		67.3	84.0	88.7	92.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1200		68.7	85.3	90.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000		68.7	86.0	90.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 900		68.7	86.0	90.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800		68.7	86.0	91.3	95.3	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 700		68.7	86.0	91.3	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		68.7	86.7	92.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500		68.7	86.7	92.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400		68.7	86.7	92.0	96.0	96.7	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300		68.7	86.7	92.0	96.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		68.7	86.7	92.0	96.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		68.7	86.7	92.0	96.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7
0		68.7	86.7	92.0	96.7	97.3	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

130

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769 STATION

OCEANA, VIRGINIA STATION NAME

73-77 YEARS

APR MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		60.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000		66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 16000		66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 14000		66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 12000		67.3	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 10000		72.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 9000		72.0	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 8000		79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 7000		80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 6000		80.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 5000		81.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4500		81.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 4000		82.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 3500		82.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 3000		86.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2500		87.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 2000		87.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1800		87.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500		88.7	92.0	93.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 300		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 200		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 100		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0		88.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0

TOTAL NUMBER OF OBSERVATIONS

150

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# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

APR  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		58.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 18000		66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 16000		66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 14000		66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 12000		66.0	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
≥ 10000		68.7	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 9000		69.3	72.7	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 8000		71.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 7000		71.3	74.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
≥ 6000		72.7	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 5000		73.3	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500		74.7	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4000		78.0	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500		79.3	82.7	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3000		84.0	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2500		86.7	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	91.3	91.3	91.3
≥ 2000		87.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3
≥ 1800		87.3	91.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	93.3	93.3	93.3
≥ 1500		88.0	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7
≥ 1200		88.0	92.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.7	94.7	94.7
≥ 1000		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0
≥ 900		88.7	93.3	94.7	95.3	95.3	95.3	95.3	95.3	95.3	96.0	96.0	96.0
≥ 800		88.7	94.7	96.0	96.7	96.7	96.7	96.7	96.7	96.7	97.3	97.3	97.3
≥ 700		88.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3	97.3	98.0	98.0	98.0
≥ 600		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 500		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 400		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 300		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 200		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 100		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
0		88.7	95.3	97.3	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

STATION NAME  
OCEANA, VIRGINIA

YEARS  
73-77

APR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 18000		60.7	62.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000		60.7	62.0	62.7	63.3	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000		62.0	63.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		62.0	63.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000		64.7	66.0	66.7	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 9000		64.7	66.0	66.7	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0
≥ 8000		68.0	70.0	70.7	71.3	72.0	72.0	72.7	72.7	72.7	72.7	72.7
≥ 7000		69.3	72.0	72.7	73.3	74.0	74.0	74.7	74.7	74.7	74.7	74.7
≥ 6000		69.3	72.0	72.7	73.3	74.0	74.0	74.7	74.7	74.7	74.7	74.7
≥ 5000		70.7	73.3	74.0	74.7	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 4500		72.0	74.7	75.3	76.0	76.7	76.7	77.3	77.3	77.3	77.3	77.3
≥ 4000		78.7	81.3	82.0	83.3	84.0	84.0	84.7	84.7	84.7	84.7	84.7
≥ 3500		79.3	82.7	84.0	85.3	86.0	86.0	86.7	86.7	86.7	86.7	86.7
≥ 3000		81.3	84.7	87.3	89.3	90.0	90.0	90.7	90.7	90.7	90.7	90.7
≥ 2500		84.0	87.3	90.0	92.0	92.7	92.7	93.3	93.3	93.3	93.3	93.3
≥ 2000		84.7	88.0	91.3	93.3	94.0	94.0	94.7	94.7	94.7	94.7	94.7
≥ 1800		85.3	88.7	92.0	94.0	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 1500		86.7	90.7	94.0	96.0	96.7	96.7	97.3	97.3	97.3	97.3	97.3
≥ 1200		86.7	90.7	94.7	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 1000		86.7	90.7	94.7	96.7	97.3	97.3	98.0	98.0	98.0	98.0	98.0
≥ 900		86.7	90.7	94.7	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 800		86.7	90.7	94.7	97.3	98.0	98.0	98.7	98.7	98.7	98.7	98.7
≥ 700		86.7	90.7	94.7	98.0	98.7	98.7	99.3	99.3	99.3	99.3	99.3
≥ 600		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 500		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 400		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 300		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 200		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 100		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0
≥ 0		87.3	91.3	95.3	98.7	99.3	99.3	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150



# CEILING VERSUS VISIBILITY

STATION 13769 OCEANA, VIRGINIA STATION NAME 73-77 YEARS MONTH APR 19 HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	48.7	53.3	54.0	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
≥ 20000	54.0	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
18000	54.0	58.7	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
16000	55.3	60.0	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
14000	56.0	60.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
12000	56.7	61.3	62.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
10000	60.0	64.7	66.0	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 9000	61.3	66.0	68.0	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
8000	65.3	70.0	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
7000	68.0	72.7	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
6000	68.7	73.3	76.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
5000	69.3	74.0	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4500	71.3	76.7	81.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
4000	72.7	78.0	82.7	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
3500	76.7	82.0	86.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
3000	76.7	82.0	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2500	78.0	83.3	88.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2000	78.0	83.3	88.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1800	79.3	86.0	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
1500	79.3	86.0	91.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
1200	80.0	86.7	92.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1000	80.7	87.3	92.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
900	80.7	87.3	92.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
800	80.7	87.3	92.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
700	80.7	87.3	92.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
600	80.7	87.3	93.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
500	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
400	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
300	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
200	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
100	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0	80.7	87.3	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS 150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

72-77

YEARS

APR  
MONTH

22  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
18000		63.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
16000		63.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
14000		63.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0
12000		64.7	68.7	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
10000		66.7	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
9000		71.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
8000		72.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
7000		76.0	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
6000		76.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
5000		76.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
4500		78.0	84.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
4000		78.0	84.0	84.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
3500		81.3	88.0	88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
3000		82.7	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
2500		84.0	91.3	92.0	93.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0
2000		84.7	92.0	92.7	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7
1800		84.7	92.0	92.7	94.0	94.0	94.0	94.7	94.7	94.7	94.7	94.7
1500		84.7	92.0	93.3	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
1200		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
1000		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
900		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
800		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
700		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
600		84.7	92.0	94.0	95.3	95.3	95.3	96.0	96.0	96.0	96.0	96.0
500		84.7	92.0	94.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7	96.7
400		84.7	92.0	95.3	96.7	96.7	96.7	97.3	98.0	98.7	98.7	98.7
300		84.7	92.0	95.3	96.7	96.7	96.7	97.3	98.0	98.7	98.7	98.7
200		84.7	92.0	95.3	96.7	96.7	96.7	97.3	98.0	98.7	98.7	98.7
100		84.7	92.0	95.3	96.7	96.7	96.7	97.3	98.0	98.7	98.7	98.7
0		84.7	92.0	95.3	96.7	96.7	96.7	97.3	98.0	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

APR  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		55.4	59.6	60.7	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.2
≥ 18000		61.1	65.6	67.1	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.8
≥ 16000		61.1	65.6	67.1	67.6	67.7	67.7	67.7	67.7	67.7	67.7	67.8
≥ 14000		61.3	65.8	67.3	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.9
≥ 12000		61.8	66.3	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.4
≥ 10000		62.8	67.6	69.1	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.9
≥ 9000		66.1	71.0	72.5	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.4
8000		66.6	71.8	73.3	74.0	74.1	74.1	74.1	74.1	74.1	74.1	74.2
7000		70.3	75.5	77.3	77.9	78.0	78.2	78.2	78.2	78.2	78.2	78.3
6000		71.7	77.1	78.8	79.5	79.6	79.6	79.8	79.8	79.8	79.8	79.9
5000		72.1	77.5	79.3	80.0	80.1	80.1	80.3	80.3	80.3	80.3	80.4
4500		73.0	78.7	80.7	81.4	81.6	81.6	81.8	81.8	81.8	81.8	81.9
4000		73.5	79.2	81.2	82.0	82.2	82.2	82.3	82.3	82.3	82.3	82.4
3500		75.9	82.0	84.2	85.2	85.4	85.4	85.6	85.6	85.6	85.6	85.7
3000		76.8	83.1	85.3	86.3	86.6	86.6	86.8	86.8	86.8	86.8	86.9
2500		79.0	85.9	88.4	89.6	89.8	89.8	90.0	90.0	90.0	90.0	90.1
2000		80.2	87.3	89.9	91.2	91.4	91.5	91.7	91.8	91.8	91.8	91.9
1800		80.9	88.3	91.0	92.4	92.7	92.8	92.9	93.0	93.0	93.1	93.2
1500		81.7	89.6	92.7	94.2	94.5	94.6	94.8	94.8	94.8	94.9	95.0
1200		81.8	90.0	93.3	94.9	95.3	95.3	95.5	95.6	95.6	95.7	95.8
1000		82.0	90.3	93.5	95.2	95.5	95.6	95.8	95.8	95.8	95.9	96.0
900		82.1	90.4	93.6	95.5	95.8	95.9	96.1	96.2	96.2	96.3	96.4
800		82.1	90.6	94.1	95.9	96.3	96.3	96.5	96.6	96.7	96.8	96.9
700		82.1	90.7	94.2	96.1	96.4	96.7	96.8	96.9	97.0	97.1	97.2
600		82.2	90.9	94.7	96.7	97.0	97.3	97.5	97.6	97.7	97.8	97.9
500		82.2	91.0	95.0	97.1	97.4	97.7	97.9	98.0	98.2	98.3	98.4
400		82.2	91.0	95.1	97.3	97.6	97.9	98.2	98.3	98.7	98.8	98.9
300		82.3	91.1	95.2	97.6	97.9	98.4	98.7	98.8	99.2	99.3	99.4
200		82.3	91.1	95.2	97.6	97.9	98.4	98.7	98.8	99.2	99.3	99.4
100		82.3	91.1	95.2	97.6	97.9	98.4	98.7	98.8	99.2	99.3	99.4
0		82.3	91.1	95.2	97.6	97.9	98.4	98.7	98.8	99.2	99.3	99.4

TOTAL NUMBER OF OBSERVATIONS

1200



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000		43.2	49.0	53.6	54.8	54.8	56.1	56.1	56.1	56.1	56.8	56.8	56.8	56.8	56.8
≥ 18000		51.0	56.8	61.9	63.2	63.2	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2
≥ 16000		51.0	56.8	61.9	63.2	63.2	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2
≥ 14000		51.0	56.8	61.9	63.2	63.2	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2
≥ 12000		51.6	57.4	62.6	63.9	63.9	65.2	65.2	65.2	65.2	65.8	65.8	65.8	65.8	65.8
≥ 10000		54.2	60.0	65.2	66.5	66.5	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4	68.4
≥ 9000		54.8	60.7	65.8	67.1	67.1	68.4	68.4	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 8000		58.1	63.9	69.0	71.0	71.0	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9	72.9
≥ 7000		59.4	65.2	70.3	72.3	72.3	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 6000		59.4	65.2	70.3	72.3	72.3	73.6	73.6	73.6	73.6	74.2	74.2	74.2	74.2	74.2
≥ 5000		60.7	66.5	71.6	74.2	74.2	75.5	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1
≥ 4500		60.7	66.5	71.6	74.2	74.2	75.5	75.5	75.5	75.5	76.1	76.1	76.1	76.1	76.1
≥ 4000		61.3	67.1	72.9	75.5	75.5	76.8	76.8	76.8	76.8	77.4	77.4	77.4	77.4	77.4
≥ 3500		61.9	67.7	73.6	76.1	76.1	77.4	77.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1
≥ 3000		63.2	69.7	77.4	80.7	80.7	81.9	81.9	81.9	81.9	82.6	82.6	82.6	82.6	82.6
≥ 2500		64.5	71.0	78.7	81.9	81.9	83.2	83.2	83.2	83.2	83.9	83.9	83.9	83.9	83.9
≥ 2000		65.8	72.9	80.7	84.5	84.5	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1800		65.8	72.9	80.7	84.5	84.5	85.8	85.8	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 1500		65.8	74.2	82.6	86.5	86.5	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4	88.4
≥ 1200		65.8	74.2	83.2	87.1	87.1	88.4	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 1000		65.8	74.2	83.2	87.1	87.1	89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7
≥ 900		65.8	74.2	83.2	87.1	87.1	89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7	89.7
≥ 800		65.8	74.8	83.9	87.7	87.7	89.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3
≥ 700		65.8	74.8	84.5	88.4	88.4	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0	91.0
≥ 600		65.8	74.8	85.8	89.7	89.7	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 500		65.8	74.8	87.1	91.0	91.0	93.6	93.6	93.6	93.6	94.2	94.2	94.2	94.2	94.2
≥ 400		65.8	74.8	87.1	91.6	91.6	94.2	94.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8
≥ 300		65.8	75.5	87.7	92.3	92.3	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 200		65.8	75.5	87.7	92.3	92.3	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 100		65.8	75.5	87.7	92.3	92.3	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5
0		65.8	75.5	87.7	92.3	92.3	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5	95.5

TOTAL NUMBER OF OBSERVATIONS

155



## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

MAY

MONTH

04

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000		35.5	42.6	47.7	52.3	52.9	54.2	54.2	54.2	54.8	54.8	54.8	55.1
≥ 18000		40.7	47.7	52.9	57.4	58.1	59.4	59.4	59.4	60.0	60.0	60.0	61.3
≥ 16000		40.7	47.7	52.9	57.4	58.1	59.4	59.4	59.4	60.0	60.0	60.0	61.3
≥ 14000		40.7	47.7	52.9	57.4	58.1	59.4	59.4	59.4	60.0	60.0	60.0	61.3
≥ 12000		42.6	49.7	55.5	60.0	60.7	61.9	61.9	61.9	62.6	62.6	62.6	63.9
≥ 10000		45.8	52.9	59.4	64.5	65.2	66.5	66.5	66.5	67.1	67.1	67.1	68.4
≥ 9000		45.8	52.9	59.4	64.5	65.2	66.5	66.5	66.5	67.1	67.1	67.1	68.4
≥ 8000		50.3	58.7	65.8	71.0	71.6	72.9	72.9	72.9	73.6	73.6	73.6	74.8
≥ 7000		51.6	60.0	67.1	72.3	72.9	74.2	74.2	74.2	74.8	74.8	74.8	76.1
≥ 6000		52.9	61.3	68.4	73.6	74.2	75.5	75.5	75.5	76.1	76.1	76.1	77.4
≥ 5000		52.9	61.3	69.0	74.8	75.5	76.8	76.8	76.8	77.4	77.4	77.4	78.7
≥ 4500		52.9	61.3	69.0	74.8	75.5	76.8	76.8	76.8	77.4	77.4	77.4	78.7
≥ 4000		52.9	61.3	69.0	74.8	75.5	76.8	76.8	76.8	77.4	77.4	77.4	78.7
≥ 3500		54.2	63.2	71.6	77.4	78.1	79.4	80.0	80.0	80.7	80.7	80.7	81.9
≥ 3000		54.8	64.5	72.9	79.4	80.7	81.9	83.9	84.5	85.2	85.2	85.2	86.5
≥ 2500		54.8	64.5	72.9	79.4	80.7	81.9	83.9	84.5	85.2	85.2	85.2	86.5
≥ 2000		54.8	64.5	73.6	81.3	82.6	84.5	85.2	85.2	85.8	85.8	85.8	87.1
≥ 1800		54.8	64.5	73.6	81.3	82.6	84.5	85.2	85.2	85.8	85.8	85.8	87.1
≥ 1500		54.8	64.5	73.6	81.3	82.6	84.5	85.2	85.2	85.8	85.8	85.8	87.1
≥ 1200		54.8	64.5	74.2	81.9	83.2	85.8	86.5	86.5	87.1	87.1	87.1	88.4
≥ 1000		54.8	64.5	75.5	83.2	84.5	87.1	87.7	87.7	88.4	88.4	88.4	89.7
≥ 900		54.8	64.5	75.5	83.2	84.5	87.1	87.7	87.7	88.4	88.4	88.4	89.7
≥ 800		54.8	64.5	76.1	83.9	85.2	87.7	88.4	88.4	89.0	89.0	89.0	90.3
≥ 700		54.8	64.5	76.1	83.9	85.2	87.7	88.4	88.4	89.0	89.0	89.0	90.3
≥ 600		54.8	65.2	77.4	85.2	86.5	89.0	89.7	89.7	91.0	91.0	91.0	92.3
≥ 500		55.5	65.8	78.1	86.5	87.7	91.0	91.6	91.6	92.9	92.9	92.9	94.2
≥ 400		55.5	65.8	78.1	87.7	89.0	92.3	92.9	92.9	94.2	94.2	94.2	95.5
≥ 300		55.5	65.8	78.7	88.4	89.7	93.6	94.2	94.2	95.5	95.5	95.5	96.8
≥ 200		55.5	65.8	78.7	88.4	89.7	94.2	95.5	95.5	96.8	96.8	96.8	98.1
≥ 100		55.5	65.8	78.7	88.4	89.7	94.2	95.5	95.5	96.8	96.8	96.8	98.7
0		55.5	65.8	78.7	88.4	89.7	94.2	95.5	95.5	96.8	96.8	96.8	100.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

STATION OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

MAY

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/16
NO CEILING											
≥ 20000		34.2	40.7	43.9	49.0	50.3	51.0	51.6	51.6	51.6	52.3
≥ 18000		39.4	47.1	50.3	56.1	57.4	58.1	58.7	58.7	58.7	59.4
≥ 16000		39.4	47.1	50.3	56.1	57.4	58.1	58.7	58.7	58.7	59.4
≥ 14000		40.0	47.7	51.0	56.8	58.1	59.4	60.0	60.0	60.0	60.7
≥ 12000		41.9	50.3	53.6	59.4	60.7	61.9	62.6	62.6	62.6	63.2
≥ 10000		46.5	56.1	60.0	66.5	67.7	69.7	70.3	70.3	70.3	71.0
≥ 9000		47.1	56.8	60.7	67.1	68.4	70.3	71.0	71.0	71.0	71.6
≥ 8000		49.0	59.4	63.9	70.3	71.6	74.2	74.8	74.8	74.8	75.5
≥ 7000		50.3	60.7	65.2	71.6	72.9	75.5	76.1	76.1	76.1	76.8
≥ 6000		51.0	61.3	65.8	72.9	74.2	76.6	77.4	77.4	77.4	78.1
≥ 5000		52.3	63.2	67.7	74.8	76.1	78.7	79.4	79.4	79.4	80.0
≥ 4500		52.3	63.9	68.4	75.5	76.8	79.4	80.0	80.0	80.0	80.7
≥ 4000		52.9	64.5	69.0	76.1	78.1	80.7	81.3	81.3	81.3	81.9
≥ 3500		54.2	66.5	71.0	78.1	80.0	82.6	83.2	83.2	83.2	83.9
≥ 3000		54.8	67.1	71.6	79.4	81.3	83.9	84.5	84.5	84.5	85.2
≥ 2500		56.1	68.4	72.9	80.7	83.2	85.6	86.5	86.5	86.5	87.1
≥ 2000		56.1	68.4	72.9	81.3	83.9	86.5	87.1	87.1	87.1	87.7
≥ 1800		56.1	68.4	72.9	81.3	83.9	86.5	87.1	87.1	87.1	87.7
≥ 1500		56.8	69.7	74.2	82.6	85.2	87.7	89.0	89.0	89.0	89.7
≥ 1200		57.4	70.3	75.5	84.5	87.1	89.7	91.6	91.6	91.6	92.3
≥ 1000		57.4	70.3	75.5	84.5	87.1	89.7	91.6	91.6	91.6	92.3
≥ 900		57.4	70.3	76.1	85.2	87.7	90.3	92.3	92.3	92.3	92.9
≥ 800		57.4	70.3	76.1	85.2	87.7	90.3	92.3	92.3	92.3	92.9
≥ 700		57.4	70.3	76.1	85.2	88.4	91.0	92.9	92.9	92.9	93.6
≥ 600		57.4	70.3	76.1	85.2	88.4	91.0	92.9	92.9	92.9	93.6
≥ 500		57.4	70.3	76.1	85.2	88.4	92.3	94.8	94.8	94.8	95.5
≥ 400		57.4	70.3	76.1	85.8	89.0	92.9	94.8	95.5	95.5	96.1
≥ 300		57.4	70.3	76.1	85.8	89.7	93.6	96.8	96.8	96.8	97.4
≥ 200		57.4	70.3	76.1	85.8	89.7	93.6	96.8	97.4	98.1	98.7
≥ 100		57.4	70.3	76.1	85.8	89.7	93.6	96.8	97.4	98.1	98.7
0		57.4	70.3	76.1	85.8	89.7	93.6	96.8	97.4	98.1	98.7

TOTAL NUMBER OF OBSERVATIONS

155

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME73-77  
YEARSMAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		48.4	51.6	52.9	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 20000		54.8	58.1	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000		54.8	58.1	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 16000		54.8	58.1	59.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000		55.5	58.7	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 12000		57.4	60.7	61.9	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000		60.0	63.9	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 9000		60.0	63.9	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
8000	AI AI	63.2	67.7	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
7000	AI AI	64.5	69.0	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
6000	AI AI	65.2	69.7	72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
5000	AI AI	66.5	71.0	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
4500	AI AI	66.5	71.0	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
4000	AI AI	67.7	72.3	75.5	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
3500	AI AI	67.7	72.3	76.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3000	AI AI	68.4	72.9	76.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
2500	AI AI	69.7	74.8	78.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2000	AI AI	71.6	76.8	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1800	AI AI	71.6	76.8	81.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
1500	AI AI	74.2	80.0	84.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
1200	AI AI	74.2	80.7	85.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
1000	AI AI	74.2	81.3	85.8	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
900	AI AI	76.1	83.2	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
800	AI AI	76.1	83.2	87.7	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
700	AI AI	76.1	83.2	88.4	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
600	AI AI	76.1	83.2	88.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
500	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
400	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
300	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
200	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
100	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
0	AI AI	76.1	83.2	89.0	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

135



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													
≥ 20000		36.8	37.4	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7	38.7
≥ 18000		47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 16000		47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 14000		47.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 12000		48.4	51.0	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 10000		52.3	54.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 9000		52.3	54.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
≥ 8000		56.1	59.4	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 7000		56.8	60.7	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 6000		58.1	61.9	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 5000		59.4	64.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4500		59.4	64.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4000		61.9	67.1	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3500		61.9	67.1	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000		69.7	74.8	78.1	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0	80.0
≥ 2500		74.2	80.7	83.9	85.2	85.2	85.2	85.2	85.8	85.8	85.8	85.8	85.8
≥ 2000		76.1	82.6	85.8	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7	87.7
≥ 1800		76.8	83.2	86.5	88.4	88.4	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 1500		78.7	85.2	89.7	91.6	91.6	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 1200		80.0	86.5	91.0	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6	93.6
≥ 1000		80.0	86.5	91.6	94.2	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5
≥ 900		80.0	86.5	91.6	94.2	94.2	94.2	94.2	95.5	95.5	95.5	95.5	95.5
≥ 800		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 700		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 600		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 500		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 400		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 300		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 200		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
≥ 100		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1
0		80.7	87.1	92.3	94.8	94.8	94.8	94.8	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

MAY

MONTH

16

HOURS (L.S.T.)

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING	41.9	44.5	47.1	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	51.6	54.2	56.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 18000	51.6	54.2	56.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 16000	51.6	54.2	56.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	51.6	54.2	56.8	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 12000	52.9	55.5	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000	54.8	57.4	60.0	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000	55.5	58.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 8000	60.7	66.5	70.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 7000	61.3	67.1	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 6000	61.3	67.1	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 5000	61.9	67.7	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4500	61.9	67.7	71.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 4000	63.9	69.7	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500	65.2	71.0	75.5	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3000	68.4	76.1	80.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 2500	70.3	78.7	83.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
≥ 2000	72.3	81.3	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	72.3	81.3	87.1	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	74.2	83.9	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200	74.2	84.5	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 1000	74.2	85.2	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 900	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 800	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 500	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 400	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 300	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 200	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 100	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
0	74.8	85.8	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155

1225

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

MAY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		43.9	45.2	49.7	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 20000		56.8	59.4	64.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 18000		56.8	59.4	64.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 16000		56.8	59.4	64.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000		56.8	59.4	64.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 12000		60.0	62.6	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 10000		61.3	63.9	69.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 9000		61.3	63.9	69.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 8000		63.2	67.1	73.6	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000		63.9	67.7	74.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 6000		63.9	67.7	74.2	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 5000		64.5	68.4	75.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4500		64.5	68.4	75.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000		65.8	69.7	77.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3500		65.8	69.7	77.4	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 3000		66.5	71.6	81.3	86.5	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2500		66.5	71.6	81.3	86.5	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2000		67.1	72.9	82.6	88.4	88.4	88.4	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1800		67.7	73.6	83.9	89.7	89.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1500		68.4	74.2	83.9	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		68.4	74.2	83.9	89.7	89.7	89.7	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000		68.4	74.2	85.8	92.3	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2
≥ 900		68.4	74.2	85.8	92.3	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2
≥ 800		68.4	74.2	85.8	92.3	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2
≥ 700		68.4	74.2	85.8	92.3	92.3	92.3	94.2	94.2	94.2	94.2	94.2	94.2
≥ 600		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
≥ 500		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
≥ 400		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
≥ 300		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
≥ 200		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
≥ 100		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1
0		69.0	74.8	86.5	93.6	93.6	93.6	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS 155

DIRNAVOCEANMET SMOS



# CEILING VERSUS VISIBILITY

2

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

MAY  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½	≥ 5/16
NO CEILING												
≥ 20000	48.4	51.6	52.9	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 18000	56.1	60.7	61.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5
≥ 16000	56.1	60.7	61.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000	56.1	60.7	61.9	65.8	65.8	65.8	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000	57.4	61.9	63.2	67.1	67.1	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 10000	58.7	63.9	65.8	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 9000	58.7	63.9	65.8	69.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000	61.9	68.4	71.6	76.1	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 7000	62.6	69.0	72.3	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000	63.2	69.7	72.9	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 5000	63.9	70.3	73.6	78.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 4500	64.5	71.0	74.2	78.7	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 4000	64.5	71.0	74.8	79.4	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3500	64.5	71.0	74.8	80.0	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 3000	65.8	72.9	77.4	83.2	83.2	83.9	83.9	84.5	84.5	84.5	84.5	84.5
≥ 2500	67.1	74.2	78.7	84.5	84.5	85.2	85.2	85.8	85.8	85.8	85.8	85.8
≥ 2000	68.4	75.5	80.7	87.1	87.1	87.7	87.7	88.4	88.4	88.4	88.4	88.4
≥ 1800	69.0	76.1	81.3	87.7	87.7	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 1500	69.0	76.1	81.3	87.7	87.7	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 1200	69.0	76.1	81.3	87.7	87.7	88.4	88.4	89.0	89.0	89.0	89.0	89.0
≥ 1000	69.0	76.8	82.6	89.0	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0
≥ 900	69.0	76.8	82.6	89.0	89.0	90.3	90.3	91.0	91.0	91.0	91.0	91.0
≥ 800	69.0	76.8	83.2	89.7	89.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6
≥ 700	69.0	76.8	83.2	89.7	89.7	91.0	91.0	91.6	91.6	91.6	91.6	91.6
≥ 600	69.0	77.4	83.9	91.0	91.0	92.9	92.9	93.6	93.6	93.6	93.6	93.6
≥ 500	69.0	77.4	83.9	91.0	91.0	92.9	92.9	93.6	93.6	93.6	93.6	93.6
≥ 400	69.0	77.4	83.9	92.9	92.9	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 300	69.0	77.4	83.9	92.9	92.9	95.5	95.5	96.8	96.8	96.8	96.8	96.8
≥ 200	69.0	77.4	83.9	92.9	92.9	96.1	96.1	97.4	97.4	97.4	97.4	97.4
≥ 100	69.0	77.4	83.9	92.9	92.9	96.8	96.8	98.1	98.1	98.7	98.7	98.7
0	69.0	77.4	83.9	92.9	92.9	93.6	93.6	98.1	98.1	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

12

1213054221

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

MAY

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000	41.5	45.3	48.3	50.7	50.9	51.4	51.5	51.5	51.5	51.5	51.6	51.7	51.9
≥ 18000	49.8	54.3	57.4	60.1	60.3	60.8	60.9	60.9	60.9	61.0	61.1	61.1	61.4
≥ 16000	49.8	54.3	57.4	60.1	60.3	60.8	60.9	60.9	60.9	61.0	61.1	61.1	61.4
≥ 14000	49.8	54.3	57.4	60.1	60.3	60.8	60.9	60.9	60.9	61.0	61.1	61.1	61.4
≥ 12000	49.9	54.4	57.6	60.2	60.5	61.1	61.1	61.1	61.1	61.2	61.3	61.4	61.6
≥ 10000	51.5	56.1	59.4	62.0	62.3	62.8	62.9	62.9	62.9	63.0	63.1	63.2	63.4
≥ 9000	54.2	59.1	63.0	65.8	66.1	66.7	66.8	66.8	66.8	66.9	66.9	67.0	67.3
≥ 8000	54.4	59.4	63.3	66.1	66.4	67.0	67.1	67.1	67.1	67.2	67.3	67.3	67.6
≥ 7000	57.8	63.9	68.5	71.7	71.9	72.7	72.7	72.7	72.7	72.8	72.9	73.0	73.2
≥ 6000	58.8	64.9	69.5	72.9	73.2	73.9	74.0	74.0	74.0	74.0	74.1	74.2	74.4
≥ 5000	59.4	65.5	70.1	73.6	73.8	74.5	74.6	74.6	74.6	74.7	74.8	74.8	75.1
≥ 4500	60.2	66.6	71.4	75.0	75.2	76.0	76.1	76.1	76.1	76.1	76.2	76.3	76.5
≥ 4000	60.3	66.8	71.5	75.2	75.4	76.1	76.2	76.3	76.3	76.4	76.5	76.5	76.8
≥ 3500	61.4	67.8	72.9	76.6	76.9	77.7	77.8	77.9	78.0	78.1	78.2	78.2	78.5
≥ 3000	61.8	68.3	73.5	77.3	77.6	78.4	78.5	78.6	78.6	78.7	78.7	78.8	79.1
≥ 2500	63.9	71.1	76.9	81.1	81.4	82.2	82.6	82.7	82.7	82.7	82.8	82.9	83.2
≥ 2000	65.4	73.0	78.8	83.2	83.6	84.3	84.9	85.0	85.1	85.1	85.2	85.2	85.6
≥ 1800	66.5	74.4	80.5	85.3	85.8	86.8	87.2	87.3	87.3	87.4	87.4	87.5	87.8
≥ 1500	66.8	74.6	80.8	85.7	86.3	87.3	87.7	87.7	87.8	87.9	87.9	88.0	88.3
≥ 1200	67.7	75.0	82.4	87.3	87.9	89.0	89.6	89.7	89.8	89.8	89.8	89.9	90.2
≥ 1000	68.0	76.4	83.1	88.1	88.6	89.8	90.6	90.7	90.7	90.8	90.8	90.9	91.3
≥ 900	68.0	76.6	83.9	89.2	89.8	91.2	92.1	92.2	92.3	92.3	92.3	92.4	92.9
≥ 800	68.3	76.9	84.4	89.7	90.2	91.7	92.5	92.7	92.7	92.8	92.8	92.9	93.4
≥ 700	68.4	77.1	84.8	90.0	90.6	92.1	93.0	93.1	93.2	93.2	93.2	93.3	93.8
≥ 600	68.4	77.1	84.8	90.2	90.9	92.7	93.6	93.6	93.7	93.7	93.8	93.9	94.4
≥ 500	68.5	77.3	85.3	90.9	91.5	93.6	94.4	94.5	94.7	94.7	94.8	94.8	95.3
≥ 400	68.6	77.4	85.7	91.5	92.1	94.6	95.7	95.9	96.1	96.2	96.2	96.3	96.8
≥ 300	68.6	77.4	85.7	92.1	92.8	95.3	96.5	96.6	96.9	97.0	97.1	97.1	97.6
≥ 200	68.6	77.5	85.9	92.3	93.1	95.7	97.1	97.3	97.7	97.9	98.0	98.0	98.5
≥ 100	68.6	77.5	85.9	92.3	93.2	96.0	97.5	97.7	98.2	98.6	98.6	99.0	99.5
≥ 0	68.6	77.5	85.9	92.3	93.2	96.0	97.5	97.7	98.2	98.6	98.6	99.0	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

2

13769

OCEANA, VIRGINIA

73-77

JUN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		38.7	43.0	54.7	59.3	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7
≥ 20000		42.0	51.3	58.0	64.0	64.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3
≥ 18000		42.0	51.3	58.0	64.0	64.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3
≥ 16000		42.0	51.3	58.0	64.0	64.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3
≥ 14000		42.0	51.3	58.0	64.0	64.7	64.7	64.7	64.7	64.7	65.3	65.3	65.3
≥ 12000		42.0	52.0	58.7	64.7	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 10000		45.3	56.0	62.7	68.7	69.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0
≥ 9000		45.3	56.7	63.3	69.3	70.0	70.0	70.0	70.0	70.7	70.7	70.7	70.7
≥ 8000		50.7	64.0	70.7	76.7	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0
≥ 7000		52.0	65.3	72.0	78.0	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3
≥ 6000		53.3	66.7	73.3	79.3	80.0	80.0	80.0	80.0	80.7	80.7	80.7	80.7
≥ 5000		54.0	68.0	74.7	80.7	81.3	81.3	81.3	81.3	82.0	82.0	82.0	82.0
≥ 4500		54.0	68.0	74.7	80.7	81.3	81.3	81.3	81.3	82.0	82.0	82.0	82.0
≥ 4000		54.0	69.3	76.0	82.0	82.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3
≥ 3500		54.0	69.3	76.0	82.0	82.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3
≥ 3000		56.7	74.0	80.7	86.7	87.3	87.3	87.3	87.3	88.0	88.0	88.0	88.0
≥ 2500		57.3	74.7	81.3	87.3	88.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7
≥ 2000		58.0	75.3	82.7	88.7	89.3	89.3	89.3	89.3	90.0	90.0	90.0	90.0
≥ 1800		58.0	75.3	82.7	88.7	89.3	89.3	89.3	89.3	90.0	90.0	90.0	90.0
≥ 1500		58.7	76.0	84.7	91.3	92.0	92.0	92.0	92.0	92.7	92.7	92.7	92.7
≥ 1200		60.0	77.3	85.0	92.7	93.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0
≥ 1000		60.0	77.3	86.0	93.3	94.0	94.0	94.0	94.0	94.7	94.7	94.7	94.7
≥ 900		60.7	78.0	86.7	94.0	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 800		60.7	78.0	86.7	94.0	94.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3
≥ 700		60.7	78.7	87.3	94.7	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0
≥ 600		60.7	78.7	87.3	94.7	95.3	95.3	95.3	95.3	96.0	96.0	96.0	96.0
≥ 500		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 400		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 300		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 200		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
≥ 100		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7
0		60.7	78.7	87.3	95.3	96.0	96.0	96.0	96.0	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000		32.0	36.7	42.7	50.0	50.0	52.7	53.3	54.0	54.0	55.3	55.3	55.3
≥ 18000		35.3	41.3	48.7	58.0	58.0	61.3	62.0	62.7	62.7	64.0	64.0	64.0
≥ 16000		35.3	41.3	48.7	58.0	58.0	61.3	62.0	62.7	62.7	64.0	64.0	64.0
≥ 14000		35.3	41.3	48.7	58.0	58.0	61.3	62.0	62.7	62.7	64.0	64.0	64.0
≥ 12000		37.3	43.3	50.7	60.0	60.0	63.3	64.0	64.7	64.7	66.0	66.0	66.0
≥ 10000		40.0	47.3	56.0	65.3	65.3	69.3	70.0	70.7	70.7	72.0	72.0	72.0
≥ 9000		40.0	47.3	56.0	65.3	65.3	69.3	70.0	70.7	70.7	72.0	72.0	72.0
≥ 8000		44.0	53.3	62.7	72.0	72.0	76.0	76.7	77.3	77.3	78.7	78.7	78.7
≥ 7000		44.7	54.0	63.3	72.7	72.7	76.7	77.3	78.0	78.0	79.3	79.3	79.3
≥ 6000		45.3	54.7	64.0	73.3	73.3	77.3	78.0	78.7	78.7	80.0	80.0	80.0
≥ 5000		45.3	54.7	64.0	73.3	73.3	77.3	78.0	78.7	78.7	80.0	80.0	80.0
≥ 4500		45.3	54.7	64.0	73.3	73.3	77.3	78.0	78.7	78.7	80.0	80.0	80.0
≥ 4000		46.0	55.3	64.7	74.0	74.0	78.0	78.7	79.3	79.3	81.3	81.3	81.3
≥ 3500		46.0	55.3	64.7	74.0	74.0	78.0	78.7	79.3	79.3	81.3	81.3	81.3
≥ 3000		47.3	58.7	68.0	77.3	77.3	82.0	82.7	83.3	83.3	84.7	84.7	84.7
≥ 2500		49.3	60.7	70.0	79.3	79.3	84.7	85.3	86.0	86.0	87.3	87.3	87.3
≥ 2000		51.3	63.3	72.7	82.0	82.0	87.3	88.0	88.7	88.7	90.0	90.0	90.0
≥ 1800		51.3	63.3	72.7	82.0	82.0	87.3	88.0	88.7	88.7	90.0	90.0	90.0
≥ 1500		52.0	65.3	74.7	84.0	84.0	89.3	90.0	90.7	90.7	92.0	92.0	92.0
≥ 1200		52.7	66.0	75.3	84.7	84.7	90.0	90.7	91.3	91.3	92.7	92.7	92.7
≥ 1000		53.3	66.7	76.0	85.3	85.3	90.7	91.3	92.0	92.0	93.3	93.3	93.3
≥ 900		54.0	67.3	76.7	86.7	86.7	92.0	92.7	93.3	93.3	94.7	94.7	94.7
≥ 800		54.7	68.0	77.3	87.3	87.3	92.7	93.3	94.0	94.0	95.3	95.3	95.3
≥ 700		54.7	68.0	77.3	87.3	87.3	92.7	93.3	94.0	94.0	95.3	95.3	95.3
≥ 600		54.7	68.0	77.3	87.3	87.3	92.7	93.3	94.0	94.0	95.3	95.3	95.3
≥ 500		54.7	68.0	77.3	87.3	87.3	92.7	93.3	94.0	94.0	95.3	95.3	95.3
≥ 400		54.7	68.0	77.3	87.3	87.3	92.7	93.3	94.0	94.0	95.3	95.3	95.3
≥ 300		55.3	68.7	78.7	88.7	88.7	94.0	95.3	96.0	96.0	97.3	97.3	97.3
≥ 200		55.3	68.7	78.7	88.7	88.7	94.0	95.3	96.0	96.0	97.3	97.3	97.3
≥ 100		55.3	68.7	78.7	88.7	88.7	94.0	95.3	96.0	96.0	97.3	97.3	97.3
0		55.3	68.7	78.7	88.7	88.7	94.0	95.3	96.0	96.0	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

07  
HOURS (L S T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		24.0	36.7	42.0	47.3	50.0	51.3	51.3	51.3	51.3	51.3	51.3	52.0
≥ 18000		26.7	40.7	46.0	53.3	56.0	57.3	57.3	57.3	57.3	57.3	58.0	58.7
≥ 16000		26.7	40.7	46.0	53.3	56.0	57.3	57.3	57.3	57.3	57.3	58.0	58.7
≥ 14000		26.7	40.7	46.0	53.3	56.0	57.3	57.3	57.3	57.3	57.3	58.0	58.7
≥ 12000		27.3	41.3	46.7	54.0	56.7	58.0	58.0	58.0	58.0	58.0	58.7	59.3
≥ 10000		28.7	44.0	50.0	57.3	60.0	61.3	61.3	61.3	61.3	61.3	62.0	62.7
≥ 9000		34.0	50.0	56.0	63.3	66.0	67.3	67.3	67.3	67.3	67.3	68.0	68.7
≥ 8000		34.0	50.0	56.0	63.3	66.0	67.3	67.3	67.3	67.3	67.3	68.0	68.7
≥ 7000		36.7	55.3	61.3	68.7	71.3	72.7	72.7	72.7	72.7	72.7	73.3	74.0
≥ 6000		36.7	56.0	62.0	69.3	72.7	74.0	74.0	74.0	74.0	74.0	74.7	75.3
≥ 5000		38.0	57.3	63.3	70.7	74.0	75.3	75.3	75.3	75.3	75.3	76.0	76.7
≥ 4500		38.0	57.3	63.3	70.7	74.0	75.3	75.3	75.3	75.3	75.3	76.0	76.7
≥ 4000		38.0	58.0	64.0	72.0	75.3	76.7	76.7	76.7	76.7	76.7	77.3	78.0
≥ 3500		38.0	58.0	64.0	72.0	75.3	76.7	76.7	76.7	76.7	76.7	77.3	78.0
≥ 3000		39.3	60.0	66.0	74.7	78.0	80.0	80.0	80.0	80.0	80.0	80.7	81.3
≥ 2500		40.0	60.7	66.7	75.3	78.7	80.7	80.7	80.7	80.7	80.7	81.3	82.0
≥ 2000		42.7	63.3	69.3	78.0	82.0	84.0	84.0	84.0	84.0	84.0	84.7	85.3
≥ 1800		43.3	64.0	70.7	79.3	83.3	85.3	85.3	85.3	85.3	85.3	86.0	86.7
≥ 1500		44.7	65.3	72.0	80.7	84.7	86.7	86.7	86.7	86.7	86.7	87.3	88.0
≥ 1200		46.0	66.7	74.0	82.7	86.7	88.7	88.7	88.7	88.7	88.7	89.3	90.0
≥ 1000		47.3	68.7	76.0	85.3	89.3	91.3	91.3	91.3	91.3	91.3	92.0	92.7
≥ 900		47.3	68.7	76.0	85.3	89.3	91.3	92.0	92.0	92.0	92.0	92.7	93.3
≥ 800		48.0	69.3	76.7	86.0	90.0	92.7	93.3	93.3	94.0	94.0	94.7	95.3
≥ 700		48.0	69.3	76.7	86.7	90.7	93.3	94.0	94.0	94.7	94.7	95.3	96.0
≥ 600		48.0	70.0	77.3	87.3	91.3	94.0	94.7	94.7	95.3	95.3	96.0	96.7
≥ 500		48.0	70.0	77.3	87.3	91.3	94.0	95.3	95.3	96.0	96.0	96.7	97.3
≥ 400		48.0	70.0	77.3	87.3	92.0	95.3	96.0	96.0	97.3	97.3	98.0	98.7
≥ 300		48.0	70.0	77.3	87.3	92.0	95.3	96.7	96.7	98.0	98.0	98.7	99.3
≥ 200		48.0	70.0	77.3	87.3	92.0	95.3	96.7	96.7	98.7	98.7	99.3	100.0
≥ 100		48.0	70.0	77.3	87.3	92.0	95.3	96.7	96.7	98.7	98.7	99.3	100.0
≥ 0		48.0	70.0	77.3	87.3	92.0	95.3	96.7	96.7	98.7	98.7	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS 150

16130 54221

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

JUN  
MONTH

10

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000	38.0	42.0	42.0	46.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
≥ 18000	46.7	52.7	52.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000	46.7	52.7	52.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 14000	46.7	52.7	52.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000	46.7	52.7	52.7	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 10000	48.7	55.3	55.3	59.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
≥ 9000	52.7	59.3	59.3	63.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 8000	52.7	59.3	59.3	64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 7000	56.0	63.3	63.3	68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 6000	57.3	64.7	64.7	70.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 5000	58.0	65.3	65.3	70.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 4500	58.0	65.3	65.3	71.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 4000	58.0	65.3	65.3	71.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
≥ 3500	58.7	66.0	66.0	72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3000	60.7	68.0	68.0	74.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 2500	61.3	69.3	69.3	76.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2000	64.0	73.3	73.3	80.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 1800	68.7	78.0	78.0	84.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1500	68.7	78.0	78.0	84.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1200	72.0	82.0	82.0	89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1000	72.7	82.7	82.7	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 900	73.3	84.0	84.0	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 800	73.3	84.0	84.0	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 700	74.0	85.3	85.3	93.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600	74.0	85.3	85.3	93.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0	74.0	86.0	86.0	94.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		33.3	38.0	39.3	40.0	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7
≥ 18000		41.3	48.7	51.3	52.0	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
≥ 16000		42.0	49.3	52.0	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 14000		42.0	49.3	52.0	52.7	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
≥ 12000		42.7	50.0	52.7	53.3	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 10000		44.0	51.3	54.0	54.7	55.3	56.0	56.0	56.0	56.0	56.0	56.0	56.0
≥ 9000		48.7	56.0	58.7	59.3	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 8000		48.7	56.0	58.7	59.3	60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 7000		52.7	60.7	63.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 6000		53.3	61.3	64.0	64.7	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 5000		53.3	61.3	64.0	64.7	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 4500		54.0	62.0	64.7	65.3	66.0	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 4000		57.3	66.7	70.0	71.3	72.0	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 3500		58.0	67.3	71.3	72.7	73.3	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 3000		64.0	74.0	78.7	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2500		68.7	78.7	83.3	84.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000		72.0	83.3	88.0	89.3	90.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1800		72.7	84.0	88.7	90.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1500		74.0	87.3	92.0	93.3	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7
≥ 1200		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 1000		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 900		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 800		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 700		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 600		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 500		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 400		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 300		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 200		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
≥ 100		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7
0		75.3	88.7	93.3	94.7	95.3	96.0	96.7	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150

2

12ZPS 06101

02Z

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13709  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

16

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		36.7	40.7	42.7	42.7	42.7	44.0	44.0	44.0	44.0	44.0
≥ 20000		45.3	50.7	55.3	55.3	55.3	56.7	56.7	56.7	56.7	56.7
≥ 18000		45.3	50.7	55.3	55.3	55.3	56.7	56.7	56.7	56.7	56.7
≥ 16000		45.3	50.7	55.3	55.3	55.3	56.7	56.7	56.7	56.7	56.7
≥ 14000		46.0	51.3	56.0	56.0	56.0	57.3	57.3	57.3	57.3	57.3
≥ 12000		47.3	52.7	57.3	57.3	57.3	58.7	58.7	58.7	58.7	58.7
≥ 10000		52.0	58.0	62.7	62.7	62.7	64.0	64.0	64.0	64.0	64.0
≥ 9000		52.0	58.0	62.7	62.7	62.7	64.0	64.0	64.0	64.0	64.0
≥ 8000		56.0	62.0	66.7	66.7	66.7	68.0	68.0	68.0	68.0	68.0
≥ 7000		57.3	63.3	68.0	68.0	68.0	69.3	69.3	69.3	69.3	69.3
≥ 6000		57.3	63.3	68.0	68.0	68.0	69.3	69.3	69.3	69.3	69.3
≥ 5000		58.0	64.7	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 4500		58.0	64.7	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 4000		59.3	67.3	72.7	72.7	72.7	74.0	74.0	74.0	74.0	74.0
≥ 3500		61.3	69.3	74.7	74.7	74.7	76.0	76.0	76.0	76.0	76.0
≥ 3000		63.3	72.7	78.7	78.7	78.7	80.0	80.0	80.0	80.0	80.0
≥ 2500		66.7	75.0	82.0	82.0	82.0	83.3	83.3	83.3	83.3	83.3
≥ 2000		68.7	76.0	84.0	84.0	84.0	85.3	85.3	85.3	85.3	85.3
≥ 1800		68.7	78.0	84.0	84.0	84.0	86.0	86.0	86.0	86.0	86.0
≥ 1500		72.0	82.0	88.0	88.0	88.0	90.0	90.0	90.0	90.0	90.0
≥ 1200		72.7	82.7	88.7	88.7	88.7	90.7	90.7	90.7	90.7	90.7
≥ 1000		72.7	82.7	88.7	88.7	88.7	90.7	90.7	90.7	90.7	90.7
≥ 900		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 800		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 700		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 600		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 500		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 400		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 300		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 200		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
≥ 100		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0
0		73.3	83.3	90.0	90.0	90.0	92.0	92.0	92.0	92.0	92.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

YEARS

JUN

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

19

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		32.7	40.0	43.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3	45.3
≥ 18000		44.0	54.7	60.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000		44.0	54.7	60.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 14000		44.0	54.7	60.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 12000		44.0	54.7	60.7	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 10000		49.3	60.7	67.3	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 9000		50.0	61.3	68.0	71.3	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 8000		52.7	64.0	72.0	75.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 7000		54.7	66.0	74.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 6000		54.7	66.0	74.0	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 5000		55.3	67.3	75.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 4500		55.3	67.3	75.3	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
≥ 4000		58.0	70.0	78.0	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 3500		58.0	70.7	78.7	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 3000		59.3	72.7	80.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2500		59.3	74.0	82.0	86.7	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 2000		60.0	76.0	84.0	88.0	89.3	90.0	90.7	91.3	91.3	91.3	91.3	91.3
≥ 1800		60.0	76.0	84.0	88.7	89.3	90.0	90.7	91.3	91.3	91.3	91.3	91.3
≥ 1500		61.3	77.3	85.3	91.3	92.0	92.7	93.3	93.3	94.0	94.0	94.0	94.0
≥ 1200		62.0	78.0	86.0	92.0	92.7	93.3	94.0	94.0	94.7	94.7	94.7	94.7
≥ 1000		62.0	78.0	86.0	92.7	93.3	94.0	95.3	95.3	96.0	96.0	96.0	96.0
≥ 900		62.7	79.3	87.3	94.0	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3
≥ 800		62.7	79.3	87.3	94.0	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3
≥ 700		62.7	79.3	87.3	94.0	94.7	95.3	96.7	97.3	97.3	97.3	97.3	97.3
≥ 600		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
≥ 500		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
≥ 400		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
≥ 300		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
≥ 200		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
≥ 100		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7
0		63.3	80.0	88.0	94.7	95.3	96.7	98.0	98.0	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

JUN

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 5/16
NO CEILING											
≥ 20000	38.7	48.0	52.0	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 18000	42.7	54.7	59.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 16000	42.7	54.7	59.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 14000	42.7	54.7	59.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 12000	44.0	56.7	61.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
≥ 10000	49.3	62.7	67.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 9000	49.3	62.7	67.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 8000	54.7	69.3	74.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 7000	56.7	71.3	76.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 6000	57.3	72.0	77.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
≥ 5000	58.7	74.0	79.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4500	58.7	74.0	79.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 4000	60.0	76.7	82.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 3500	60.0	76.7	82.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
≥ 3000	61.3	78.7	84.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 2500	62.0	80.0	86.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 2000	62.7	80.7	86.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1800	62.7	80.7	86.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 1500	62.7	81.3	88.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1200	62.7	81.3	88.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000	62.7	82.0	90.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 900	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0	63.3	82.7	91.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUN  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

ALL

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		34.3	41.3	45.3	48.5	49.0	49.7	49.8	49.8	49.8	50.1	50.1
≥ 18000		40.5	49.3	54.5	58.7	59.2	59.9	60.0	60.1	60.1	60.3	60.4
≥ 16000		40.6	49.4	54.6	58.8	59.3	60.0	60.1	60.2	60.2	60.4	60.5
≥ 14000		40.6	49.4	54.6	58.8	59.3	60.0	60.1	60.2	60.2	60.4	60.5
≥ 12000		40.8	49.8	54.9	59.1	59.6	60.3	60.4	60.5	60.5	60.8	60.9
≥ 10000		42.1	51.4	56.7	60.8	61.3	62.2	62.3	62.3	62.3	62.7	62.8
≥ 9000		46.4	56.3	61.8	66.0	66.6	67.5	67.6	67.7	67.7	68.0	68.1
≥ 8000		46.5	56.4	62.0	66.3	66.8	67.8	67.8	67.9	67.9	68.2	68.3
≥ 7000		50.4	61.5	67.5	71.8	72.3	73.3	73.3	73.4	73.4	73.7	73.8
≥ 6000		51.6	62.8	68.8	73.0	73.7	74.6	74.7	74.8	74.8	75.0	75.1
≥ 5000		52.2	63.3	69.3	73.6	74.3	75.2	75.3	75.3	75.3	75.6	75.7
≥ 4500		52.7	64.2	70.3	74.5	75.3	76.2	76.3	76.4	76.4	76.7	76.8
≥ 4000		52.8	64.3	70.3	74.6	75.3	76.3	76.4	76.5	76.5	76.8	76.9
≥ 3500		53.9	66.2	72.4	76.8	77.7	78.7	78.8	78.8	79.1	79.2	79.3
≥ 3000		54.5	66.8	73.2	77.6	78.4	79.4	79.5	79.6	79.6	79.9	80.0
≥ 2500		56.6	70.0	76.7	81.4	82.3	83.3	83.5	83.6	83.6	83.9	84.0
≥ 2000		58.4	72.3	78.9	83.7	84.5	85.8	86.1	86.2	86.2	86.4	86.5
≥ 1800		60.5	74.8	81.5	86.3	87.3	88.6	88.9	89.0	89.1	89.3	89.4
≥ 1500		60.7	75.0	81.8	86.8	87.7	89.0	89.3	89.4	89.5	89.8	89.9
≥ 1200		62.2	77.1	84.3	89.3	90.3	91.6	91.9	92.0	92.1	92.3	92.4
≥ 1000		63.0	77.9	85.2	90.3	91.3	92.8	93.1	93.2	93.3	93.6	93.7
≥ 900		63.3	78.5	85.9	91.4	92.4	94.1	94.5	94.6	94.8	95.0	95.1
≥ 800		63.8	79.0	86.6	92.2	93.2	94.9	95.4	95.5	95.7	95.9	96.0
≥ 700		64.0	79.3	87.0	92.6	93.7	95.8	96.3	96.4	96.7	96.9	97.0
≥ 600		64.0	79.4	87.1	92.8	93.9	96.1	96.7	96.8	97.0	97.3	97.3
≥ 500		64.1	79.7	87.3	93.1	94.4	96.8	97.5	97.6	97.9	98.2	98.3
≥ 400		64.1	79.7	87.4	93.2	94.6	97.0	97.8	97.9	98.3	98.6	98.7
≥ 300		64.2	79.8	87.5	93.3	94.8	97.3	98.1	98.2	98.6	98.9	99.0
≥ 200		64.2	79.8	87.5	93.3	94.8	97.3	98.1	98.2	98.6	98.9	99.0
≥ 100		64.2	79.8	87.5	93.3	94.8	97.3	98.2	98.3	98.6	98.9	99.0
≥ 0		64.2	79.8	87.5	93.3	94.8	97.3	98.2	98.3	98.6	98.9	99.0

TOTAL NUMBER OF OBSERVATIONS

1200

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		39.4	49.0	58.1	61.9	61.9	61.9	62.6	62.6	62.6	63.2	63.2	63.2	63.2
≥ 18000		41.9	52.3	63.2	69.0	69.0	69.0	70.3	71.0	71.0	71.6	71.6	71.6	71.6
≥ 16000		41.9	52.3	63.2	69.0	69.0	69.0	70.3	71.0	71.0	71.6	71.6	71.6	71.6
≥ 14000		41.9	52.3	63.2	69.0	69.0	69.0	70.3	71.0	71.0	71.6	71.6	71.6	71.6
≥ 12000		42.6	53.6	65.2	71.0	71.0	71.0	72.3	72.9	72.9	73.6	73.6	73.6	73.6
≥ 10000		47.1	59.4	72.3	78.7	78.7	78.7	80.0	80.7	80.7	81.3	81.3	81.3	81.3
≥ 9000		47.7	60.0	72.9	79.4	79.4	79.4	80.7	81.3	81.3	81.9	81.9	81.9	81.9
≥ 8000		54.2	68.4	81.3	87.7	87.7	87.7	89.0	89.7	89.7	90.3	90.3	90.3	90.3
≥ 7000		54.2	68.4	81.3	87.7	87.7	87.7	89.0	89.7	89.7	90.3	90.3	90.3	90.3
≥ 6000		54.8	69.0	81.9	88.4	88.4	88.4	89.7	90.3	90.3	91.0	91.0	91.0	91.0
≥ 5000		54.8	69.0	82.6	89.0	89.0	89.0	90.3	91.0	91.0	91.6	91.6	91.6	91.6
≥ 4500		54.8	69.7	83.2	89.7	89.7	89.7	91.0	91.6	91.6	92.3	92.3	92.3	92.3
≥ 4000		54.8	69.7	83.9	90.3	90.3	90.3	91.6	92.3	92.3	92.9	92.9	92.9	92.9
≥ 3500		54.8	69.7	83.9	90.3	90.3	90.3	91.6	92.3	92.3	92.9	92.9	92.9	92.9
≥ 3000		55.5	71.6	86.5	94.2	94.2	94.2	95.5	96.1	96.1	96.8	96.8	96.8	96.8
≥ 2500		55.5	72.3	87.1	94.8	94.8	94.8	96.1	96.8	96.8	97.4	97.4	97.4	97.4
≥ 2000		56.1	73.6	88.4	96.1	96.1	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7
≥ 1800		56.1	73.6	88.4	96.1	96.1	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7
≥ 1500		56.1	73.6	88.4	96.1	96.1	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7
≥ 1200		56.1	73.6	88.4	96.1	96.1	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7
≥ 1000		56.1	73.6	88.4	96.1	96.1	96.1	97.4	98.1	98.1	98.7	98.7	98.7	98.7
≥ 900		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 800		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 700		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 600		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 500		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 400		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 300		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 200		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
≥ 100		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4
0		56.8	74.2	89.0	96.8	96.8	96.8	98.1	98.7	98.7	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
≥ 8000													
≥ 7000													
≥ 6000													
≥ 5000													
≥ 4500													
≥ 4000													
≥ 3500													
≥ 3000													
≥ 2500													
≥ 2000													
≥ 1800													
≥ 1500													
≥ 1200													
≥ 1000													
≥ 900													
≥ 800													
≥ 700													
≥ 600													
≥ 500													
≥ 400													
≥ 300													
≥ 200													
≥ 100													
≥ 0													

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTH

07

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														≥ 0
≥ 20000		21.9	27.7	36.8	45.8	47.7	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6
18000		25.8	34.8	45.2	56.1	58.7	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
16000		25.8	34.8	45.2	56.1	58.7	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5
14000		26.5	35.5	46.5	57.4	60.0	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8
12000		28.4	38.7	51.6	62.6	65.2	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0
10000		31.6	44.5	55.7	70.3	72.9	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
9000		31.6	44.5	55.7	70.3	72.9	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
8000		34.8	49.0	63.9	75.5	78.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
7000		34.8	49.0	63.9	75.5	78.7	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
6000		34.8	49.0	63.9	76.1	79.4	84.3	85.8	85.8	85.8	85.8	85.8	85.8	85.8
5000		34.8	49.0	65.2	77.4	80.7	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1
4500		34.8	49.0	65.2	77.4	80.7	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1
4000		35.5	49.7	65.3	78.7	82.6	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0
3500		35.5	49.7	66.5	79.4	83.2	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7
3000		36.1	51.0	67.7	80.7	84.5	89.7	91.0	91.0	91.0	91.0	91.0	91.0	91.0
2500		36.1	51.6	68.4	81.3	85.2	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
2000		37.4	52.9	71.0	84.5	89.0	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1800		37.4	52.9	71.0	84.5	89.0	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1500		37.4	53.6	71.6	85.2	89.7	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1200		37.4	53.6	71.6	85.2	89.7	95.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1000		37.4	53.6	72.3	85.8	90.3	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
900		37.4	53.6	72.3	85.8	90.3	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
800		37.4	53.6	72.3	85.8	90.3	96.1	97.4	97.4	97.4	97.4	97.4	97.4	97.4
700		37.4	53.6	72.3	86.5	91.0	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
600		37.4	53.6	72.3	86.5	91.0	96.8	98.1	98.1	98.1	98.1	98.1	98.1	98.1
500		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
400		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		38.1	54.2	72.9	87.1	91.6	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

## CEILING VERSUS VISIBILITY

13769  
STATION

DCEANA, VIRGINIA

STATION NAME

73-77

YEARS

JUL  
MONTH10  
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000		34.2	40.0	47.7	52.9	54.8	54.8	54.8	54.8	54.8	54.8	54.8	54.8
18000		38.1	44.5	52.9	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
16000		38.1	44.5	52.9	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
14000		38.1	44.5	52.9	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
12000		38.1	44.5	52.9	58.1	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
10000		39.4	46.5	53.6	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
9000		39.4	46.5	53.6	58.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
8000		46.5	54.2	64.5	71.0	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
7000		48.4	56.1	66.5	72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
6000		51.0	60.0	70.3	76.8	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
5000		51.6	60.7	71.0	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4500		51.6	60.7	71.0	77.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
4000		52.3	61.9	72.3	78.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
3500		52.3	61.9	72.3	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
3000		52.3	61.9	72.3	79.4	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
2500		52.3	63.9	74.2	81.3	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
2000		52.9	65.8	77.4	84.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1800		54.2	69.0	81.9	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1500		54.2	69.0	81.9	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1200		56.8	71.6	85.2	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1000		56.8	71.6	85.2	92.9	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
900		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
800		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
700		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
600		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
500		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
400		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
300		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
200		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
100		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0		56.8	72.3	85.8	94.2	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

JUL

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1.3

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000		34.2	40.0	45.8	49.0	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 18000		42.6	50.3	58.1	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 16000		42.6	50.3	58.1	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 14000		42.6	50.3	58.1	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 12000		42.6	50.3	58.1	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 10000		44.5	52.9	61.9	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 9000		45.8	54.2	63.9	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 8000		50.3	61.3	71.0	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 7000		50.3	61.3	71.0	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 6000		50.3	61.3	71.0	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 5000		50.3	61.3	71.0	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4500		50.3	61.3	71.0	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000		51.0	63.2	72.9	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 3500		51.6	63.9	73.6	79.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 3000		53.6	67.7	79.4	85.8	86.5	86.5	87.1	87.1	87.1	87.1	87.1
≥ 2500		55.5	71.0	82.6	89.7	90.3	91.0	91.6	91.6	91.6	91.6	91.6
≥ 2000		57.4	72.9	85.8	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8
≥ 1800		57.4	72.9	85.8	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8
≥ 1500		58.1	74.2	88.4	95.5	96.1	96.6	97.4	97.4	98.1	98.1	98.1
≥ 1200		58.1	74.2	88.4	95.5	96.1	97.4	98.1	98.1	98.7	98.7	98.7
≥ 1000		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 900		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 800		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 700		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 600		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 500		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 400		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 300		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 200		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 100		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4
≥ 0		58.1	74.2	88.4	95.5	96.6	98.1	98.7	98.7	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

2

13769

OCEANA, VIRGINIA

73-77

JUL

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING		34.8	44.5	52.3	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 20000		38.7	50.3	59.4	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 18000		38.7	50.3	59.4	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 16000		38.7	50.3	59.4	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 14000		38.7	50.3	59.4	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 12000		40.0	51.6	60.7	65.8	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 10000		41.9	54.2	63.9	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 9000		41.9	54.2	63.9	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 8000		45.2	58.1	67.7	72.9	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 7000		46.5	59.4	69.0	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 6000		46.5	60.0	69.7	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 5000		47.1	60.7	70.3	75.5	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500		47.1	60.7	70.3	75.5	77.4	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4000		50.3	65.8	75.5	80.7	82.6	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3500		50.3	65.8	75.5	80.7	82.6	83.2	83.2	83.2	83.2	83.2	83.2
≥ 3000		52.3	69.0	79.4	84.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7
≥ 2500		53.6	72.9	83.9	89.7	91.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 2000		54.8	74.2	85.2	91.0	92.9	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1800		54.8	74.2	85.2	91.0	92.9	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1500		55.5	74.8	85.8	92.3	94.8	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		55.5	74.8	86.5	92.9	95.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		55.5	74.8	86.5	92.9	95.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		55.5	74.8	86.5	92.9	95.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		55.5	74.8	86.5	92.9	95.5	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 600		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 500		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 400		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 300		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 200		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
≥ 100		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4
0		55.5	75.5	87.1	93.6	96.1	99.4	99.4	99.4	99.4	99.4	99.4

155

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

JUL

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000	29.0	40.7	48.4	51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3
≥ 18000	36.8	50.3	60.7	67.1	67.1	67.1	68.4	68.4	68.4	68.4	68.4
≥ 16000	36.8	50.3	60.7	67.1	67.1	67.1	68.4	68.4	68.4	68.4	68.4
≥ 14000	36.8	50.3	60.7	67.1	67.1	67.1	68.4	68.4	68.4	68.4	68.4
≥ 12000	38.1	52.3	63.2	69.7	69.7	70.3	71.0	71.0	71.0	71.0	71.0
≥ 10000	41.3	58.1	69.7	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1
≥ 9000	41.3	58.1	69.7	76.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1
≥ 8000	43.2	60.7	72.9	80.0	80.0	80.7	82.6	82.6	82.6	82.6	82.6
≥ 7000	44.5	61.9	74.2	81.3	81.3	81.9	83.9	83.9	83.9	83.9	83.9
≥ 6000	44.5	61.9	74.2	81.3	81.3	81.9	83.9	83.9	83.9	83.9	83.9
≥ 5000	44.5	62.6	75.5	83.9	83.9	84.5	86.5	86.5	86.5	86.5	86.5
≥ 4500	44.5	62.6	75.5	83.9	83.9	84.5	86.5	86.5	86.5	86.5	86.5
≥ 4000	46.5	65.2	78.7	87.7	87.7	88.4	90.3	90.3	90.3	90.3	90.3
≥ 3500	46.5	65.2	78.7	87.7	87.7	88.4	90.3	90.3	90.3	90.3	90.3
≥ 3000	47.1	67.7	81.9	92.3	92.3	93.6	95.5	95.5	95.5	95.5	95.5
≥ 2500	47.1	68.4	83.2	93.6	93.6	94.8	96.8	96.8	96.8	96.8	96.8
≥ 2000	48.4	69.7	84.5	94.8	94.8	96.1	98.1	98.1	98.1	98.1	98.1
≥ 1800	48.4	69.7	84.5	94.8	94.8	96.1	98.1	98.1	98.1	98.1	98.1
≥ 1500	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 1200	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 1000	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 900	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 800	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 700	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 600	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 500	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 400	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 300	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 200	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
≥ 100	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7
0	48.4	69.7	85.2	95.5	95.5	96.8	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JUL  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

22

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		40.0	49.7	57.4	61.9	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6
≥ 20000		43.2	54.8	65.2	71.6	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6
18000		43.2	54.8	65.2	71.6	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6
16000		43.2	54.8	65.2	71.6	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6
14000		43.2	54.8	65.2	71.6	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6
12000		44.5	56.8	67.1	73.6	73.6	74.8	75.5	75.5	75.5	75.5	75.5	75.5
10000		47.7	61.3	72.3	78.7	78.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7
9000		47.7	61.3	72.3	78.7	78.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7
8000		50.3	64.5	75.1	83.2	83.2	84.5	85.2	85.2	85.2	85.2	85.2	85.2
7000		50.3	64.5	76.1	83.2	83.2	84.5	85.2	85.2	85.2	85.2	85.2	85.2
6000		51.0	65.2	76.8	83.9	83.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8
5000		51.6	65.8	77.4	85.8	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7
4500		51.6	65.8	77.4	85.8	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7
4000		53.6	67.7	79.4	88.4	88.4	89.7	90.3	90.3	90.3	90.3	90.3	90.3
3500		53.6	67.7	79.4	88.4	88.4	89.7	90.3	90.3	90.3	90.3	90.3	90.3
3000		56.1	70.3	82.6	91.6	91.6	92.9	93.6	93.6	93.6	93.6	93.6	93.6
2500		57.4	72.3	84.5	93.6	93.6	94.8	95.5	95.5	95.5	95.5	95.5	95.5
2000		58.1	73.6	85.8	94.8	94.8	96.1	96.8	96.8	96.8	96.8	96.8	96.8
1800		58.1	73.6	86.5	95.5	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4
1500		58.1	73.6	87.1	96.1	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4
1200		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
1000		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
900		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
800		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
700		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
600		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
500		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
400		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
300		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
200		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
100		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4
0		58.1	74.2	87.7	96.8	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

JUL

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING											
≥ 20000											
≥ 18000											
≥ 16000											
≥ 14000											
≥ 12000											
≥ 10000											
≥ 9000											
≥ 8000											
≥ 7000											
≥ 6000											
≥ 5000											
≥ 4500											
≥ 4000											
≥ 3500											
≥ 3000											
≥ 2500											
≥ 2000											
≥ 1800											
≥ 1500											
≥ 1200											
≥ 1000											
≥ 900											
≥ 800											
≥ 700											
≥ 600											
≥ 500											
≥ 400											
≥ 300											
≥ 200											
≥ 100											
0											

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING															
≥ 20000		30.3	40.7	54.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.9	61.9	61.9
18000		34.2	47.7	61.9	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6
16000		34.2	47.7	61.9	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6
14000		34.2	47.7	61.9	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.6	71.6	71.6
12000		34.8	48.4	62.6	71.0	71.0	71.6	71.6	71.6	71.6	71.6	72.3	72.3	72.3	72.3
10000		34.8	49.0	63.2	71.6	71.6	72.3	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9
9000		38.1	53.6	68.4	77.4	77.4	78.1	78.1	78.1	78.1	78.1	78.7	78.7	78.7	78.7
8000		38.1	54.2	69.0	78.1	78.1	78.7	78.7	78.7	78.7	78.7	79.4	79.4	79.4	79.4
7000		42.6	62.6	77.4	86.5	86.5	87.1	87.1	87.1	87.1	87.1	87.7	87.7	87.7	87.7
6000		42.6	62.6	77.4	87.1	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4
5000		42.6	62.6	77.4	87.1	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4
4500		42.6	62.6	77.4	87.1	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4
4000		42.6	62.6	77.4	87.1	87.1	87.7	87.7	87.7	87.7	87.7	88.4	88.4	88.4	88.4
3500		43.2	63.2	78.1	88.4	88.4	89.0	89.0	89.0	89.0	89.0	89.7	89.7	89.7	89.7
3000		43.9	63.9	78.7	89.0	89.0	89.7	89.7	89.7	89.7	89.7	90.3	90.3	90.3	90.3
2500		43.9	63.9	79.4	89.7	89.7	90.3	90.3	90.3	90.3	90.3	91.0	91.0	91.0	91.0
2000		44.5	65.2	81.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6
1800		44.5	65.2	81.3	92.3	92.3	92.9	92.9	92.9	92.9	92.9	93.6	93.6	93.6	93.6
1500		45.2	66.5	83.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5
1200		45.2	66.5	83.2	94.2	94.2	94.8	94.8	94.8	94.8	94.8	95.5	95.5	95.5	95.5
1000		45.8	67.1	83.9	94.8	94.8	95.5	95.5	95.5	95.5	95.5	96.1	96.1	96.1	96.1
900		45.8	68.4	85.2	96.1	96.1	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4
800		45.8	68.4	85.2	96.1	96.1	96.8	96.8	96.8	96.8	96.8	97.4	97.4	97.4	97.4
700		45.8	68.4	85.8	96.8	96.8	98.1	98.1	98.1	98.1	98.1	98.7	98.7	98.7	98.7
600		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
500		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
400		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
300		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
200		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
100		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4
0		45.8	69.0	86.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	99.4	99.4	99.4	99.4

155

TOTAL NUMBER OF OBSERVATIONS



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

AUG

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		28.4	34.2	46.5	56.8	58.7	60.0	60.0	60.0	60.7	60.7	62.6	62.6
≥ 18000		31.0	37.4	51.0	61.3	63.2	65.8	65.8	65.8	66.5	66.5	68.4	68.4
≥ 16000		31.0	37.4	51.0	61.3	63.2	65.8	65.8	65.8	66.5	66.5	68.4	68.4
≥ 14000		31.0	37.4	51.0	61.3	63.2	65.8	65.8	65.8	66.5	66.5	68.4	68.4
≥ 12000		32.3	39.4	52.9	63.2	65.2	67.7	67.7	67.7	68.4	68.4	70.3	70.3
≥ 10000		34.8	43.2	56.8	67.1	69.0	71.6	71.6	71.6	72.3	72.3	74.2	74.2
≥ 9000		34.8	43.2	56.8	67.1	69.0	71.6	71.6	71.6	72.3	72.3	74.2	74.2
8000		38.7	49.0	62.6	74.2	76.8	80.0	80.0	80.0	80.7	80.7	82.6	82.6
7000		38.7	49.0	62.6	74.2	76.8	80.0	80.0	80.0	80.7	80.7	82.6	82.6
6000		40.0	51.0	64.5	76.1	78.7	81.9	81.9	81.9	82.6	82.6	84.5	84.5
5000		40.0	51.0	64.5	76.1	78.7	81.9	81.9	81.9	82.6	82.6	84.5	84.5
4500		40.0	51.0	64.5	76.1	78.7	81.9	81.9	81.9	82.6	82.6	84.5	84.5
4000		40.7	51.6	65.2	77.4	80.0	83.2	83.2	83.2	83.9	83.9	85.8	85.8
3500		40.7	51.6	65.2	77.4	80.0	83.2	83.2	83.2	83.9	83.9	85.8	85.8
3000		40.7	52.3	68.4	80.7	83.2	86.5	86.5	86.5	87.1	87.1	89.0	89.0
2500		40.7	52.9	69.0	81.3	83.9	87.1	87.1	87.1	87.7	87.7	89.7	89.7
2000		41.3	54.2	71.0	83.2	85.8	89.0	89.0	89.0	89.7	89.7	91.6	91.6
1800		41.3	54.2	71.0	83.2	85.8	89.0	89.0	89.0	89.7	89.7	91.6	91.6
1500		41.3	54.8	72.3	84.5	87.1	90.3	90.3	90.3	91.0	91.0	92.9	92.9
1200		41.3	54.8	72.3	84.5	87.1	90.3	90.3	90.3	91.0	91.0	92.9	92.9
1000		41.3	55.5	72.9	85.2	87.7	91.0	91.0	91.0	91.6	91.6	93.6	93.6
900		41.3	55.5	72.9	85.2	87.7	91.0	91.0	91.0	91.6	91.6	93.6	93.6
800		41.3	55.5	73.6	85.8	88.4	92.3	92.3	92.3	92.9	92.9	94.8	94.8
700		41.3	55.5	73.6	85.8	88.4	92.3	92.3	92.3	92.9	92.9	94.8	94.8
600		41.3	55.5	73.6	86.5	89.0	92.9	92.9	92.9	93.6	93.6	95.5	95.5
500		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.2	94.2	96.1	96.1
400		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.2	94.2	96.1	96.1
300		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.2	94.2	96.1	96.1
200		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.2	94.2	96.1	96.1
100		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.8	95.5	97.4	97.4
0		41.3	55.5	73.6	87.1	89.7	93.6	93.6	93.6	94.8	95.5	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

07

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	20.7	29.7	36.1	40.7	44.3	47.7	51.0	51.0	51.6	51.6	52.3	52.9	52.9
≥ 18000	25.8	35.5	43.2	48.4	52.9	57.4	60.7	60.7	62.6	62.6	63.2	63.9	63.9
≥ 16000	25.8	35.5	43.2	48.4	52.9	57.4	60.7	60.7	62.6	62.6	63.2	63.9	63.9
≥ 14000	25.8	35.5	43.2	48.4	52.9	57.4	60.7	60.7	62.6	62.6	63.2	63.9	63.9
≥ 12000	25.8	35.5	43.2	48.4	52.9	57.4	60.7	60.7	62.6	62.6	63.2	63.9	63.9
≥ 10000	26.5	36.1	43.9	49.0	53.6	58.7	61.9	61.9	63.9	63.9	64.5	65.2	65.2
≥ 9000	30.3	41.9	51.0	56.8	61.3	66.5	69.7	69.7	72.3	72.3	72.9	73.6	73.6
≥ 8000	31.0	43.2	54.2	61.9	67.1	72.3	75.5	75.5	78.1	78.1	78.7	79.4	79.4
≥ 7000	31.0	43.9	55.5	63.2	68.4	73.6	76.8	76.8	79.4	79.4	80.0	80.7	80.7
≥ 6000	31.6	44.3	56.1	63.9	69.0	74.2	77.4	77.4	80.0	80.0	80.7	81.3	81.3
≥ 5000	32.9	45.8	57.4	65.2	70.3	75.5	78.7	78.7	81.3	81.3	81.9	82.6	82.6
≥ 4500	32.9	45.8	57.4	65.2	70.3	75.5	78.7	78.7	81.3	81.3	81.9	82.6	82.6
≥ 4000	34.2	47.1	59.4	67.7	72.9	78.1	81.3	81.3	83.9	83.9	84.5	85.2	85.2
≥ 3500	34.2	47.1	59.4	67.7	72.9	78.1	81.3	81.3	83.9	83.9	84.5	85.2	85.2
≥ 3000	34.2	47.1	59.4	67.7	72.9	78.1	81.3	81.3	83.9	83.9	84.5	85.2	85.2
≥ 2500	35.5	48.4	61.3	71.0	76.1	81.9	85.2	85.2	87.7	87.7	88.4	89.0	89.0
≥ 2000	35.5	48.4	61.3	71.0	76.1	81.9	85.2	85.2	87.7	87.7	88.4	89.0	89.0
≥ 1800	37.4	50.3	63.9	74.2	79.4	85.2	88.4	88.4	91.0	91.0	91.6	92.3	92.3
≥ 1500	37.4	50.3	63.9	74.2	79.4	85.2	88.4	88.4	91.0	91.0	91.6	92.3	92.3
≥ 1200	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 1000	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 900	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 800	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 700	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 600	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 500	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 400	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 300	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 200	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
≥ 100	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8
0	38.7	51.6	66.5	76.8	81.9	87.7	91.0	91.0	93.6	93.6	94.2	94.8	94.8

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCFANA, VIRGINIA  
STATION NAME

73-77  
YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		33.6	39.4	45.2	49.7	50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000		40.7	49.0	58.1	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
AI 18000		40.7	49.0	58.1	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
AI 16000		40.7	49.0	58.1	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
AI 14000		40.7	49.7	58.7	63.2	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
AI 12000		41.3	50.3	60.7	65.2	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
AI 10000		43.2	54.2	65.8	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
AI 9000		43.2	54.2	65.8	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
AI 8000		45.2	57.4	69.0	73.6	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
AI 7000		45.8	58.1	69.7	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
AI 6000		45.8	58.7	71.0	75.5	76.1	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
AI 5000		46.5	59.4	71.6	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
AI 4500		46.5	59.4	71.6	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
AI 4000		46.5	59.4	71.6	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
AI 3500		46.5	59.4	71.6	76.1	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
AI 3000		48.4	62.6	75.5	80.0	80.7	81.3	81.9	81.9	81.9	81.9	81.9	81.9	81.9
AI 2500		51.6	67.7	80.7	85.2	85.8	86.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
AI 2000		53.6	69.7	83.9	88.4	89.0	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
AI 1800		54.2	70.3	84.5	89.0	89.7	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0
AI 1500		57.4	74.2	88.4	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 1200		58.7	75.5	89.7	94.2	94.8	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 1000		59.4	76.1	90.3	95.5	96.1	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
AI 900		59.4	76.1	90.3	95.5	96.1	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1
AI 800		59.4	76.1	90.3	96.1	96.8	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7
AI 700		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 600		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 500		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 400		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 300		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 200		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
AI 100		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0
0		59.4	76.1	91.0	96.8	97.4	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155



# CEILING VERSUS VISIBILITY

5703 CEILING VERSUS VISIBILITY JAN 78

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

AUG  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		32.9	45.8	49.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 18000		38.1	52.9	56.8	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 16000		38.1	52.9	56.8	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 14000		38.1	52.9	56.8	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 12000		38.7	54.2	58.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000		40.0	56.3	61.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 9000		40.0	56.8	61.3	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
≥ 8000		41.9	58.7	63.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 7000		41.9	58.7	63.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 6000		41.9	58.7	63.9	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 5000		42.6	59.4	64.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4500		42.6	59.4	64.5	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
≥ 4000		43.2	60.7	66.5	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3500		43.2	60.7	66.5	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 3000		49.0	67.7	75.5	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2500		53.6	72.9	81.3	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 2000		58.7	79.4	88.4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1800		58.7	79.4	88.4	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1500		59.4	81.9	91.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 1200		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 1000		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
0		59.4	82.6	92.3	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

155

TOTAL NUMBER OF OBSERVATIONS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

AUG  
MONTH

16

HOURS (L.S.T.)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NC CEILING											
≥ 20000		27.7	38.7	45.2	47.1	47.1	48.4	48.4	48.4	48.4	48.4
≥ 18000		37.4	50.3	58.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9
≥ 16000		37.4	50.3	58.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9
≥ 14000		37.4	50.3	58.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9
≥ 12000		37.4	50.3	58.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9
≥ 10000		37.4	50.3	58.7	60.7	60.7	61.9	61.9	61.9	61.9	61.9
≥ 9000		40.7	54.2	62.6	64.5	64.5	65.8	65.8	65.8	65.8	65.8
≥ 8000		41.9	56.1	64.5	66.5	66.5	67.7	67.7	67.7	67.7	67.7
≥ 7000		41.9	56.1	64.5	66.5	66.5	67.7	67.7	67.7	67.7	67.7
≥ 6000		45.2	60.7	69.7	71.6	71.6	72.9	72.9	72.9	72.9	72.9
≥ 5000		45.2	60.7	69.7	71.6	71.6	72.9	72.9	72.9	72.9	72.9
≥ 4500		45.8	61.3	70.3	72.9	72.9	74.2	74.2	74.2	74.2	74.2
≥ 4000		45.8	61.3	70.3	72.9	72.9	74.2	74.2	74.2	74.2	74.2
≥ 3500		46.5	62.6	71.6	73.6	73.6	75.5	75.5	75.5	75.5	75.5
≥ 3000		46.5	62.6	71.6	73.6	73.6	75.5	75.5	75.5	75.5	75.5
≥ 2500		47.1	64.5	73.6	75.5	75.5	77.4	77.4	77.4	77.4	77.4
≥ 2000		52.3	70.3	81.9	85.2	85.2	87.7	87.7	87.7	87.7	87.7
≥ 1800		53.6	73.6	85.8	89.7	89.7	91.6	91.6	91.6	91.6	91.6
≥ 1500		53.6	74.2	86.5	90.3	90.3	92.3	92.3	92.3	92.3	92.3
≥ 1200		54.2	75.5	87.7	91.6	91.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		54.8	77.4	90.3	94.8	94.8	96.8	96.8	96.8	96.8	96.8
≥ 900		54.8	77.4	90.3	94.8	94.8	96.8	96.8	96.8	96.8	96.8
≥ 800		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 700		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 600		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 500		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 400		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 300		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 200		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 100		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4
≥ 0		55.5	78.1	91.0	95.5	95.5	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEAR

AUG  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0.
NO CEILING														
≥ 20000		27.7	41.3	46.5	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
18000		32.9	48.4	56.1	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
16000		32.9	48.4	56.1	63.9	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
14000		33.6	49.0	56.8	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
12000		36.8	54.8	62.6	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
10000		40.0	58.7	67.1	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
9000		40.0	58.7	67.1	75.5	75.5	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
8000		41.3	63.9	72.3	80.7	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
7000		42.6	65.2	74.2	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
6000		42.6	65.2	74.2	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
5000		42.6	65.2	74.2	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
4500		43.2	66.5	75.5	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
4000		43.2	66.5	75.5	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
3500		43.2	66.5	75.5	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
3000		46.5	70.3	79.4	89.0	89.0	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
2500		47.1	71.0	81.9	91.6	92.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2000		48.4	72.9	83.2	92.9	93.6	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1800		48.4	72.9	83.2	92.9	93.6	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
1500		49.7	74.2	84.5	94.8	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1200		49.7	74.2	84.5	94.8	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
1000		49.7	74.2	84.5	94.8	95.5	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
900		49.7	74.2	84.5	94.8	96.1	98.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4
800		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
700		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
600		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
400		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
300		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
200		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
100		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		50.3	74.8	85.2	95.5	96.8	98.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

CECEANA, VIRGINIA

73-77

STATION NAME

YEARS

AUG

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING		30.3	45.2	55.5	61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000		34.2	52.3	64.5	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 18000		34.2	52.3	64.5	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 16000		34.2	52.3	64.5	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 14000		34.8	52.9	65.2	71.6	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
≥ 12000		37.4	55.5	67.7	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 10000		41.3	60.0	72.9	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 9000		41.3	60.0	72.9	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 8000		45.8	67.7	80.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 7000		45.8	67.7	80.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 6000		45.8	67.7	80.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 5000		45.8	67.7	80.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4500		45.8	67.7	80.7	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 4000		47.7	70.3	83.2	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 3500		47.7	70.3	83.2	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 3000		47.7	70.3	83.2	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 2500		48.4	71.0	84.5	91.6	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000		49.0	71.6	85.8	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1800		49.0	71.6	85.8	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1500		49.7	72.3	87.1	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 1200		50.3	72.9	87.7	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
≥ 1000		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 900		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 800		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 700		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 600		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 500		51.0	73.6	89.0	97.4	98.1	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		51.6	74.2	90.3	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 300		51.6	74.2	90.3	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 200		51.6	74.2	90.3	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100		51.6	74.2	90.3	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0
0		51.6	74.2	90.3	98.7	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

AUG  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (LST.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000		29.0	39.4	47.3	52.7	53.6	54.4	54.8	55.0	55.0	55.0	55.1	55.5	55.7
18000		34.3	46.7	56.3	62.3	63.3	64.6	65.0	65.0	65.3	65.3	65.4	65.8	66.1
16000		34.3	46.7	56.3	62.3	63.3	64.6	65.0	65.0	65.3	65.3	65.4	65.8	66.1
14000		34.3	46.7	56.3	62.3	63.3	64.6	65.0	65.0	65.3	65.3	65.4	65.8	66.1
12000		34.3	46.7	56.3	62.3	63.3	64.6	65.0	65.0	65.3	65.3	65.4	65.8	66.1
10000		36.1	49.2	59.0	65.2	66.1	67.5	67.9	68.2	68.2	68.2	68.3	68.7	69.0
9000		38.7	53.1	63.5	69.8	70.8	72.3	72.7	73.1	73.1	73.1	73.2	73.6	74.0
8000		38.7	53.2	63.6	69.9	70.9	72.3	72.7	73.2	73.2	73.2	73.2	73.6	74.0
7000		41.5	57.9	68.6	75.4	76.6	78.2	78.6	79.0	79.0	79.0	79.4	79.5	79.7
6000		41.7	58.2	69.2	76.1	77.3	78.8	79.2	79.6	79.6	79.6	80.1	80.2	80.5
5000		42.0	58.6	69.7	76.5	77.7	79.3	79.7	80.1	80.1	80.1	80.6	80.7	81.0
4500		42.5	59.4	70.4	77.3	78.5	80.0	80.4	80.8	80.8	80.8	80.9	81.3	81.5
4000		43.1	60.2	71.4	78.5	79.7	81.2	81.6	82.0	82.0	82.0	82.1	82.5	82.7
3500		43.2	60.4	71.7	78.8	80.0	81.5	82.0	82.4	82.4	82.4	82.5	82.9	83.3
3000		45.5	63.2	75.6	83.3	84.5	86.1	86.7	87.1	87.1	87.1	87.2	87.6	88.0
2500		46.8	65.2	78.0	85.9	87.2	88.9	89.5	89.5	90.0	90.0	90.1	90.5	90.9
2000		48.3	67.2	80.5	88.6	89.8	91.5	92.3	92.3	92.7	92.7	92.8	93.2	93.6
1800		48.5	67.4	80.7	88.8	90.1	91.8	92.5	92.5	93.0	93.0	93.1	93.5	93.9
1500		49.5	69.1	83.0	91.4	92.7	94.4	95.1	95.1	95.6	95.6	95.7	96.1	96.5
1200		49.8	69.4	83.3	91.8	93.1	94.8	95.5	95.5	96.0	96.0	96.1	96.5	96.9
1000		50.0	69.8	83.7	92.3	93.6	95.5	96.3	96.3	96.8	96.8	96.9	97.3	97.7
900		50.1	70.0	84.0	92.5	93.9	95.8	96.6	96.6	97.2	97.2	97.3	97.7	98.1
800		50.2	70.1	84.1	92.7	94.1	96.2	97.1	97.2	97.7	97.7	97.7	98.2	98.6
700		50.2	70.1	84.3	92.9	94.3	96.5	97.4	97.5	98.0	98.0	98.1	98.5	98.9
600		50.2	70.2	84.5	93.2	94.6	96.9	97.8	97.9	98.4	98.4	98.5	98.9	99.3
500		50.2	70.2	84.5	93.3	94.7	97.0	97.9	98.0	98.5	98.5	98.6	99.0	99.4
400		50.2	70.3	84.6	93.4	94.8	97.2	98.1	98.2	98.6	98.6	98.7	99.1	99.6
300		50.2	70.3	84.6	93.4	94.8	97.2	98.1	98.2	98.6	98.6	98.7	99.1	99.6
200		50.2	70.3	84.6	93.4	94.8	97.2	98.1	98.2	98.6	98.6	98.7	99.1	99.6
100		50.2	70.3	84.6	93.4	94.8	97.3	98.2	98.2	98.8	98.8	98.9	99.4	99.9
0		50.2	70.3	84.6	93.4	94.8	97.3	98.2	98.2	98.8	98.8	98.9	99.4	100.0

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		42.0	47.3	54.0	60.7	60.7	62.7	63.3	63.3	63.3	64.0	64.0
≥ 20000		44.7	50.7	58.7	65.3	65.3	67.3	68.0	68.0	68.0	68.7	68.7
≥ 18000		44.7	50.7	58.7	65.3	65.3	67.3	68.0	68.0	68.0	68.7	68.7
≥ 16000		44.7	50.7	58.7	65.3	65.3	67.3	68.0	68.0	68.0	68.7	68.7
≥ 14000		45.3	51.3	59.3	66.0	66.0	68.0	68.7	68.7	69.3	69.3	69.3
≥ 12000		45.3	51.3	60.0	66.7	66.7	68.7	69.3	69.3	70.0	70.0	70.0
≥ 10000		49.3	55.3	64.0	70.7	70.7	72.7	73.3	73.3	74.0	74.0	74.0
≥ 9000		49.3	55.3	64.0	70.7	70.7	72.7	73.3	73.3	74.0	74.0	74.0
≥ 8000		52.0	60.0	68.7	75.3	75.3	77.3	78.0	78.0	78.7	78.7	78.7
≥ 7000		53.3	61.3	70.0	76.7	76.7	78.7	79.3	79.3	80.0	80.0	80.0
≥ 6000		53.3	61.3	70.0	76.7	76.7	78.7	79.3	79.3	80.0	80.0	80.0
≥ 5000		54.0	62.0	70.7	77.3	77.3	79.3	80.0	80.0	80.7	80.7	80.7
≥ 4500		54.0	62.0	70.7	77.3	77.3	79.3	80.0	80.0	80.7	80.7	80.7
≥ 4000		55.3	64.0	74.0	80.7	80.7	82.7	83.3	83.3	84.0	84.0	84.0
≥ 3500		56.0	64.7	74.7	81.3	81.3	83.3	84.0	84.0	84.7	84.7	84.7
≥ 3000		58.0	66.7	77.3	84.7	84.7	86.7	87.3	87.3	88.0	88.0	88.0
≥ 2500		58.0	67.3	80.0	87.3	87.3	89.3	90.0	90.0	90.7	90.7	90.7
≥ 2000		58.0	68.0	81.3	88.7	88.7	90.7	91.3	91.3	92.0	92.0	92.0
≥ 1800		58.7	68.7	82.0	89.3	89.3	91.3	92.0	92.0	92.7	92.7	92.7
≥ 1500		59.3	70.0	85.3	93.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7
≥ 1200		59.3	70.0	85.3	93.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7
≥ 1000		59.3	70.0	85.3	93.3	93.3	95.3	96.0	96.0	96.7	96.7	96.7
≥ 900		60.0	70.7	86.0	94.0	94.0	96.0	96.7	96.7	97.3	97.3	97.3
≥ 800		60.0	70.7	86.0	94.0	94.0	96.0	96.7	96.7	97.3	97.3	97.3
≥ 700		60.0	70.7	86.0	94.7	94.7	96.7	97.3	97.3	98.0	98.0	98.0
≥ 600		60.0	70.7	86.0	94.7	94.7	96.7	98.0	98.0	98.7	98.7	98.7
≥ 500		60.0	70.7	86.0	94.7	94.7	96.7	98.0	98.0	98.7	98.7	98.7
≥ 400		60.0	70.7	86.0	94.7	94.7	96.7	98.0	98.0	98.7	98.7	98.7
≥ 300		60.0	70.7	86.0	94.7	94.7	96.7	98.0	98.0	98.7	98.7	98.7
≥ 200		60.0	70.7	86.0	95.3	95.3	98.0	99.3	99.3	100.0	100.0	100.0
≥ 100		60.0	70.7	86.0	95.3	95.3	98.0	99.3	99.3	100.0	100.0	100.0
0		60.0	70.7	86.0	95.3	95.3	98.0	99.3	99.3	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

SEP  
MONTH

04

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000		29.3	36.0	45.3	50.0	50.0	54.7	56.0	56.7	56.7	56.7	56.7	56.7
≥ 18000		32.7	39.3	48.7	54.0	54.7	59.3	61.3	62.7	62.7	62.7	62.7	62.7
≥ 16000		32.7	39.3	48.7	54.0	54.7	59.3	61.3	62.7	62.7	62.7	62.7	62.7
≥ 14000		32.7	39.3	48.7	54.0	54.7	59.3	61.3	62.7	62.7	62.7	62.7	62.7
≥ 12000		33.3	40.0	49.3	55.3	56.0	60.7	62.7	64.0	64.0	64.0	64.0	64.0
≥ 10000		36.7	44.0	54.0	60.0	60.7	65.3	67.3	68.7	68.7	68.7	68.7	68.7
≥ 9000		36.7	44.0	54.0	60.0	60.7	65.3	67.3	68.7	68.7	68.7	68.7	68.7
≥ 8000		41.3	49.3	59.3	65.3	66.0	70.7	72.7	74.0	74.0	74.0	74.0	74.0
≥ 7000		43.3	51.3	61.3	67.3	68.0	72.7	74.7	76.0	76.0	76.0	76.0	76.0
≥ 6000		44.0	52.0	62.0	69.3	70.0	74.7	76.7	78.0	78.0	78.0	78.0	78.0
≥ 5000		44.0	52.7	63.3	70.7	71.3	76.0	78.0	79.3	79.3	79.3	79.3	79.3
≥ 4500		44.0	52.7	63.3	70.7	71.3	76.0	78.0	79.3	79.3	79.3	79.3	79.3
≥ 4000		45.3	55.3	66.7	74.0	74.7	79.3	81.3	82.7	82.7	82.7	82.7	82.7
≥ 3500		46.0	56.0	67.3	74.7	75.3	80.0	82.0	83.3	83.3	83.3	83.3	83.3
≥ 3000		46.7	57.3	69.3	76.7	77.3	82.7	84.7	86.0	86.0	86.0	86.0	86.0
≥ 2500		47.3	59.3	71.3	78.7	79.3	84.7	86.7	88.0	88.0	88.0	88.0	88.0
≥ 2000		48.0	60.0	72.0	79.3	80.7	86.0	88.0	89.3	89.3	89.3	89.3	89.3
≥ 1800		48.7	60.7	72.7	80.7	82.0	87.3	89.3	90.7	90.7	90.7	90.7	90.7
≥ 1500		49.3	61.3	74.7	82.7	84.0	89.3	91.3	92.7	92.7	92.7	92.7	92.7
≥ 1200		49.3	61.3	74.7	82.7	84.0	89.3	91.3	92.7	92.7	92.7	92.7	92.7
≥ 1000		49.3	62.0	75.3	83.3	84.7	90.0	92.0	93.3	93.3	93.3	93.3	93.3
≥ 900		49.3	62.0	76.7	84.7	86.0	91.3	93.3	94.7	94.7	94.7	94.7	94.7
≥ 800		50.0	63.3	78.7	86.7	88.0	93.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 700		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 600		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 500		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 400		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 300		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 200		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
≥ 100		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0
0		50.7	64.7	80.0	88.0	89.3	94.7	96.7	98.0	98.0	98.0	98.0	98.0

TOTAL NUMBER OF OBSERVATIONS

150

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

YEARS

SEP

STATION NAME

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		26.0	32.0	35.7	40.7	42.7	45.3	45.3	45.3	46.7	47.3
≥ 20000		28.7	36.0	43.3	46.0	48.7	52.0	52.7	52.7	54.0	54.7
≥ 18000		28.7	36.0	43.3	46.0	48.7	52.0	52.7	52.7	54.0	54.7
≥ 16000		28.7	36.0	43.3	46.0	48.7	52.0	52.7	52.7	54.0	54.7
≥ 14000		28.7	36.0	43.3	46.0	48.7	52.0	52.7	52.7	54.0	54.7
≥ 12000		30.0	37.3	45.3	48.0	50.7	54.0	54.7	54.7	56.0	56.7
≥ 10000		32.0	39.3	50.0	52.7	55.3	58.7	60.7	60.7	62.0	62.7
≥ 9000		32.0	39.3	50.0	52.7	55.3	58.7	60.7	60.7	62.0	62.7
≥ 8000		36.7	46.0	58.0	62.7	65.3	68.7	70.7	70.7	72.0	72.7
≥ 7000		38.0	48.7	60.7	65.3	68.0	71.3	73.3	73.3	74.7	75.3
≥ 6000		38.7	49.3	61.3	66.0	68.7	72.0	74.0	74.0	75.3	76.0
≥ 5000		40.0	50.7	62.7	68.0	70.7	74.0	76.0	76.0	77.3	78.0
≥ 4500		40.0	50.7	62.7	68.0	70.7	74.0	76.0	76.0	77.3	78.0
≥ 4000		40.7	52.0	64.0	70.0	72.7	76.0	78.0	78.0	79.3	80.0
≥ 3500		40.7	52.7	64.7	70.7	73.3	76.7	78.7	78.7	80.0	80.7
≥ 3000		42.0	54.0	66.7	72.7	75.3	78.7	80.7	80.7	82.0	82.7
≥ 2500		42.0	54.7	67.3	73.3	76.7	80.0	82.0	82.0	83.3	84.0
≥ 2000		44.0	56.7	69.3	76.0	80.0	83.3	85.3	85.3	86.7	87.3
≥ 1800		44.0	56.7	70.0	76.7	80.7	84.0	86.0	86.0	87.3	88.0
≥ 1500		46.7	59.3	73.3	80.0	84.0	87.3	89.3	89.3	90.7	91.3
≥ 1200		46.7	60.0	74.0	81.3	85.3	88.7	90.7	90.7	92.0	92.7
≥ 1000		47.3	60.7	75.3	82.7	86.7	90.7	92.7	92.7	94.0	95.3
≥ 900		47.3	60.7	76.0	83.3	87.3	91.3	93.3	93.3	94.7	96.0
≥ 800		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 700		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 600		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 500		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 400		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 300		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 200		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
≥ 100		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3
0		47.3	60.7	76.7	84.7	88.7	92.7	94.7	94.7	96.0	97.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

SEP  
NORTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING		39.3	46.0	48.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 20000		44.7	52.7	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 18000		44.7	52.7	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 16000		44.7	52.7	56.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 14000		44.7	53.3	56.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000		45.3	54.0	57.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 10000		47.3	58.0	61.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 9000		47.3	58.0	61.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 8000		52.7	64.7	68.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 7000		54.0	66.0	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 6000		54.0	66.0	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 5000		54.0	66.0	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4500		54.0	66.0	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 4000		54.0	66.7	70.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
≥ 3500		54.7	67.3	70.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 3000		58.0	71.3	75.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0	78.0
≥ 2500		61.3	75.3	79.3	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0
≥ 2000		66.7	80.7	84.7	86.7	86.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1800		67.3	81.3	85.3	87.3	87.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500		70.0	85.3	92.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 1200		71.3	86.7	94.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 1000		71.3	86.7	94.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 900		71.3	86.7	94.0	96.0	96.0	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 800		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 700		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 600		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 500		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 400		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 300		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 200		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
≥ 100		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3
0		71.3	87.3	94.7	96.7	96.7	97.3	97.3	97.3	97.3	97.3	97.3	97.3

TOTAL NUMBER OF OBSERVATIONS

150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH13  
HOURS (L.S.T.)PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING													
≥ 20000		42.0	46.0	47.3	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
18000		48.0	53.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
16000		48.0	53.3	56.0	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
14000		48.7	54.0	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
12000		48.7	54.0	57.3	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
10000		50.7	58.0	61.3	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
9000		50.7	58.7	62.0	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
8000		52.7	61.3	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
7000		54.7	63.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
6000		54.7	63.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
5000		54.7	63.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
4500		54.7	63.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
4000		56.0	64.7	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
3500		56.0	64.7	68.0	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
3000		63.3	72.0	76.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
2500		68.0	76.7	80.7	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
2000		72.0	82.0	84.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1800		72.7	83.3	88.0	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1500		77.3	88.0	93.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1200		77.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1000		77.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
900		77.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
800		77.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
700		77.3	88.0	94.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
600		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
500		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
400		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
300		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
200		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
100		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0		77.3	88.0	94.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)16  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000	38.0	44.0	47.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 18000	45.3	51.3	55.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 16000	45.3	51.3	55.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 14000	45.3	51.3	55.3	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 12000	46.0	52.0	56.7	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
≥ 10000	51.3	58.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 9000	51.3	58.0	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 8000	56.7	64.0	68.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000	57.3	64.7	69.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 6000	58.7	66.7	71.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
≥ 5000	59.3	67.3	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 4500	59.3	67.3	72.7	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
≥ 4000	62.0	70.0	76.0	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 3500	62.0	70.0	76.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000	67.3	75.3	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2500	70.0	78.7	86.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2000	72.0	80.7	90.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	72.0	80.7	90.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1500	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1200	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 1000	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 900	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 800	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 700	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 600	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 500	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 400	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 300	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 200	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 100	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 0	72.0	82.0	92.0	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

12769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

SEP  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16	≥ ¼
NO CEILING													≥ 0
≥ 20000		39.3	44.7	46.0	52.7	52.7	52.7	53.3	53.3	53.3	53.3	53.3	53.3
≥ 18000		46.7	52.7	56.0	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 16000		46.7	52.7	56.0	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 14000		46.7	52.7	56.0	63.3	63.3	63.3	64.0	64.0	64.0	64.0	64.0	64.0
≥ 12000		48.0	54.0	58.0	65.3	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000		48.0	56.0	60.0	67.3	67.3	67.3	68.0	68.0	68.0	68.0	68.0	68.0
≥ 9000		52.0	60.7	64.7	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7
≥ 8000		52.0	60.7	64.7	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7	72.7
≥ 7000		58.7	68.0	72.0	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0	80.0
≥ 6000		60.0	69.3	73.3	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3
≥ 5000		60.0	69.3	73.3	81.3	81.3	81.3	82.0	82.0	82.0	82.0	82.0	82.0
≥ 4500		61.3	70.7	74.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3
≥ 4000		61.3	70.7	74.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3	83.3
≥ 3500		62.0	71.3	75.3	83.3	83.3	83.3	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3000		63.3	74.0	80.0	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7	88.7
≥ 2500		64.0	74.7	80.7	88.7	88.7	88.7	89.3	89.3	89.3	89.3	89.3	89.3
≥ 2000		66.0	77.3	83.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800		66.0	77.3	83.3	91.3	91.3	91.3	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500		66.0	77.3	83.3	92.0	92.0	92.0	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 1000		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 900		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 800		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 700		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600		66.0	77.3	84.0	92.7	92.7	92.7	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 400		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 300		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 200		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0
≥ 100		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0
0		66.0	77.3	84.7	94.7	94.7	94.7	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

150



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
13769

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

SEP  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	43.3	52.0	55.3	62.7	62.7	62.7	62.7	63.3	63.3	64.0	64.0	64.0	64.0
≥ 18000	48.7	58.0	62.7	70.0	70.0	70.0	70.0	70.7	70.7	71.3	71.3	71.3	71.3
≥ 16000	48.7	58.0	62.7	70.0	70.0	70.0	70.0	70.7	70.7	71.3	71.3	71.3	71.3
≥ 14000	48.7	58.0	62.7	70.0	70.0	70.0	70.0	70.7	70.7	71.3	71.3	71.3	71.3
≥ 12000	48.7	59.3	64.0	71.3	71.3	71.3	71.3	72.0	72.0	72.7	72.7	72.7	72.7
≥ 10000	50.7	62.7	68.0	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7	76.7	76.7
≥ 9000	50.7	62.7	68.0	75.3	75.3	75.3	75.3	76.0	76.0	76.7	76.7	76.7	76.7
8000	55.3	67.3	72.7	80.0	80.0	80.0	80.0	80.7	80.7	81.3	81.3	81.3	81.3
7000	56.0	68.0	73.3	80.7	80.7	80.7	80.7	81.3	81.3	82.0	82.0	82.0	82.0
6000	56.0	68.0	73.3	80.7	80.7	80.7	80.7	81.3	81.3	82.0	82.0	82.0	82.0
5000	57.3	69.3	75.3	82.7	82.7	82.7	82.7	83.3	83.3	84.0	84.0	84.0	84.0
4500	57.3	69.3	75.3	82.7	82.7	82.7	82.7	83.3	83.3	84.0	84.0	84.0	84.0
4000	58.0	70.7	76.7	84.0	84.0	84.0	84.0	85.3	85.3	86.0	86.0	86.0	86.0
3500	58.0	70.7	76.7	84.0	84.0	84.0	84.0	85.3	85.3	86.0	86.0	86.0	86.0
3000	60.7	74.7	82.0	89.3	89.3	89.3	89.3	90.7	90.7	91.3	91.3	92.0	92.0
2500	60.7	75.3	82.7	90.0	90.0	90.0	90.0	91.3	91.3	92.0	92.0	92.0	92.0
2000	61.3	76.0	83.3	90.7	90.7	90.7	90.7	92.0	92.0	92.7	92.7	93.3	93.3
1800	62.0	76.7	84.0	91.3	91.3	91.3	91.3	92.7	92.7	93.3	93.3	94.0	94.0
1500	62.0	78.0	86.7	94.0	94.0	94.0	94.0	95.3	95.3	96.0	96.0	96.7	96.7
1200	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
1000	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
900	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
800	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
700	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
600	62.0	78.7	88.0	96.0	96.0	96.0	96.0	97.3	97.3	98.0	98.0	98.7	98.7
500	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7
400	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7
300	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7
200	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7
100	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7
0	62.0	79.3	88.7	96.7	96.7	96.7	96.7	97.3	97.3	98.0	98.0	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

SEP  
MONTH  
ALL  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		37.4	43.5	47.8	51.8	52.0	53.2	53.6	53.6	53.9	54.1	54.1	54.1
≥ 18000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 16000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 14000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 12000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 10000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 9000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 8000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 7000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 6000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 5000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 4500		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 4000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 3500		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 3000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 2500		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 2000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 1800		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 1500		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 1200		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 1000		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 900		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 800		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 700		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 600		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 500		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 400		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 300		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 200		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 100		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6
≥ 0		42.4	49.3	54.6	58.8	59.2	60.4	61.0	61.0	61.4	61.6	61.6	61.6

1200

TOTAL NUMBER OF OBSERVATIONS

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

OCT  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		46.5	54.2	60.0	60.7	60.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 20000		49.0	58.1	64.5	65.2	65.2	65.2	66.5	66.5	66.5	66.5	66.5	66.5
AI 18000		49.0	58.1	64.5	65.2	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5
AI 16000		49.0	58.1	64.5	65.2	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5
AI 14000		49.0	58.1	64.5	65.2	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5
AI 12000		51.0	60.0	66.5	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4	68.4
AI 10000		51.6	61.3	67.7	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7
AI 9000		51.6	61.3	67.7	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7
AI 8000		59.4	71.6	78.1	78.7	78.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0
AI 7000		60.7	72.9	79.4	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
AI 6000		60.7	72.9	79.4	80.0	80.0	81.3	81.3	81.3	81.3	81.3	81.3	81.3
AI 5000		61.9	74.2	80.7	81.3	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6
AI 4500		62.6	74.8	81.3	81.9	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2
AI 4000		64.5	76.8	83.2	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
AI 3500		64.5	76.8	83.2	83.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.2
AI 3000		65.8	78.1	84.5	85.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5
AI 2500		66.5	78.7	85.9	86.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7
AI 2000		67.1	80.7	88.4	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
AI 1800		67.1	80.7	88.4	90.3	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6
AI 1500		67.7	81.9	89.7	91.6	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9
AI 1200		68.4	83.2	91.0	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 1000		68.4	83.2	91.0	93.6	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8
AI 900		69.0	83.9	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
AI 800		69.0	83.9	91.6	94.2	94.2	95.5	95.5	95.5	95.5	95.5	95.5	95.5
AI 700		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 600		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 500		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 400		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 300		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 200		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
AI 100		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1
0		69.0	83.9	92.3	94.8	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

04  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING		44.5	54.2	58.7	63.2	63.2	64.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 20000		45.8	55.5	60.0	64.5	64.5	65.8	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 18000		45.8	55.5	60.0	64.5	64.5	65.8	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 16000		45.8	55.5	60.0	64.5	64.5	65.8	68.4	68.4	69.0	69.0	69.0	69.0	69.0
≥ 14000		46.5	56.1	60.7	65.2	65.2	66.5	69.0	69.0	69.7	69.7	69.7	69.7	69.7
≥ 12000		47.1	56.8	61.3	65.8	65.8	67.1	69.7	69.7	70.3	70.3	70.3	70.3	70.3
≥ 10000		48.4	58.7	63.2	67.7	67.7	69.0	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 9000		48.4	58.7	63.2	67.7	67.7	69.0	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 8000		50.3	61.3	66.5	71.6	71.6	72.9	75.5	75.5	76.1	76.1	76.1	76.1	76.1
≥ 7000		51.0	61.9	67.1	72.3	72.3	73.6	76.1	76.1	76.8	76.8	76.8	76.8	76.8
≥ 6000		52.9	63.9	69.0	74.2	74.2	75.5	78.1	78.1	78.7	78.7	78.7	78.7	78.7
≥ 5000		54.2	65.8	71.6	76.1	76.1	77.4	80.0	80.0	80.7	80.7	80.7	80.7	80.7
≥ 4500		54.2	65.8	71.6	76.1	76.1	77.4	80.0	80.0	80.7	80.7	80.7	80.7	80.7
≥ 4000		54.8	67.1	72.3	77.4	77.4	78.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9
≥ 3500		54.8	67.1	72.3	77.4	77.4	78.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9
≥ 3000		54.8	68.4	74.8	80.0	80.0	81.3	83.9	83.9	84.5	84.5	84.5	84.5	84.5
≥ 2500		55.5	70.3	76.8	81.9	81.9	83.2	85.8	85.8	86.5	86.5	86.5	86.5	86.5
≥ 2000		55.5	71.0	77.4	83.2	83.2	84.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7
≥ 1800		55.5	71.6	78.1	83.9	83.9	85.2	87.7	87.7	88.4	88.4	88.4	88.4	88.4
≥ 1500		57.4	73.6	80.0	85.8	85.8	87.1	89.7	89.7	90.3	90.3	90.3	90.3	90.3
≥ 1200		59.4	75.5	81.9	87.7	87.7	89.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 1000		59.4	75.5	81.9	87.7	87.7	89.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3
≥ 900		59.4	75.5	83.2	89.0	89.0	90.3	92.9	92.9	93.6	93.6	93.6	93.6	93.6
≥ 800		59.4	75.5	83.2	89.7	89.7	91.0	93.6	93.6	94.2	94.2	94.2	94.2	94.2
≥ 700		59.4	75.5	83.2	89.7	89.7	91.0	93.6	93.6	94.2	94.2	94.2	94.2	94.2
≥ 600		60.0	76.1	83.9	90.3	90.3	91.6	94.2	94.2	94.8	94.8	94.8	94.8	94.8
≥ 500		60.0	76.1	84.5	91.0	91.0	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 400		60.0	76.1	84.5	91.0	91.0	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 300		60.0	76.1	84.5	91.0	91.0	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5
≥ 200		60.0	76.8	85.2	91.6	91.6	92.9	95.5	95.5	96.1	96.1	96.1	96.1	96.1
≥ 100		60.0	76.8	85.2	91.6	91.6	92.9	95.5	95.5	96.1	96.1	96.1	96.1	96.1
0		60.0	76.8	85.2	91.6	91.6	92.9	95.5	95.5	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

NATIONAL WEATHER SERVICE DETROIT, AGNEWVILLE, MI

2

STATION: DETROIT DATE: 7-1-77 TIME: 10:07 CONT: 17

OFFICE: DETROIT NAME: AGNEWVILLE

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
NO. CEILING	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
20000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
900	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
800	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
700	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
600	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
500	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
400	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS: 17

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

YEARS

UCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 5/16
NO CEILING		48.4	51.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
≥ 20000		53.6	58.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 18000		53.6	58.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 16000		53.6	58.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 14000		53.6	58.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
≥ 12000		54.8	60.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 10000		57.4	62.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 9000		58.1	63.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000		61.3	65.4	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 7000		61.3	68.4	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
≥ 6000		62.6	69.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 5000		63.2	70.3	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4500		64.5	72.3	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 4000		64.5	72.3	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3500		67.1	74.8	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3000		69.7	77.4	83.2	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 2500		71.0	78.7	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000		71.0	78.7	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1800		71.0	78.7	85.2	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 1500		74.2	83.9	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1200		74.2	84.5	91.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 1000		74.8	85.2	92.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 900		74.8	85.2	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 800		74.8	85.2	92.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
≥ 700		74.8	85.8	93.6	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600		74.8	85.8	93.6	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
≥ 500		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
≥ 0		74.8	85.8	93.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS



## CEILING VERSUS VISIBILITY

13709

OCEANA, VIRGINIA

73-77

OCT

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

13

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING	48.4	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
≥ 20000	56.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 18000	56.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 16000	56.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000	56.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
≥ 12000	57.4	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 10000	61.3	65.2	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 9000	61.3	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 8000	63.9	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000	64.5	69.0	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
≥ 6000	65.2	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 5000	66.5	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4500	66.5	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 4000	67.1	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
≥ 3500	69.0	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 3000	72.9	78.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	78.1	83.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000	80.0	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1800	80.0	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1500	81.9	89.7	92.9	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2
≥ 1200	82.6	90.3	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 1000	83.9	91.6	94.8	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1
≥ 900	83.9	91.6	95.5	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8
≥ 800	83.9	91.6	95.5	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 700	83.9	91.6	95.5	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 600	83.9	91.6	95.5	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4
≥ 500	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 400	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 300	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 200	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7
≥ 100	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7
0	83.9	91.6	95.5	97.4	97.4	98.7	98.7	98.7	98.7	98.7	98.7

TOTAL NUMBER OF OBSERVATIONS

155

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769 STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

OCT MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		50.3	52.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
≥ 20000		54.2	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 18000		54.2	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 16000		54.2	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 14000		54.2	57.4	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 12000		54.8	58.1	58.7	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000		59.4	62.6	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 9000		59.4	63.2	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 8000		63.9	69.0	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
≥ 7000		65.2	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 6000		65.2	70.3	71.0	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
≥ 5000		67.1	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500		68.4	74.2	74.8	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 4000		69.0	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500		70.3	76.1	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
≥ 3000		76.1	81.9	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 2500		78.1	83.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000		80.7	86.5	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1800		80.7	86.5	87.1	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1500		82.6	88.4	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1200		82.6	89.0	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 1000		83.2	90.3	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 900		83.2	90.3	91.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 800		83.2	90.3	91.6	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5
≥ 700		83.2	90.3	91.6	94.8	94.8	96.1	96.8	96.8	96.8	96.8	96.8
≥ 600		83.2	90.3	91.6	94.8	94.8	96.1	96.8	96.8	96.8	96.8	96.8
≥ 500		83.2	90.3	91.6	94.8	95.5	96.8	97.4	97.4	98.1	98.1	98.1
≥ 400		83.2	90.3	91.6	94.8	95.5	96.8	97.4	97.4	98.1	98.1	98.1
≥ 300		83.2	90.3	91.6	94.8	95.5	97.4	98.1	98.1	99.4	99.4	99.4
≥ 200		83.2	90.3	91.6	94.8	95.5	97.4	98.1	98.1	99.4	99.4	99.4
≥ 100		83.2	90.3	91.6	94.8	95.5	97.4	98.1	98.1	99.4	99.4	99.4
0		83.2	90.3	91.6	94.8	95.5	97.4	98.1	98.1	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155

DIRNAVOCEANMET SMOS

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

OCT  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

19

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		49.7	56.1	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
18000		54.8	61.3	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
16000		54.8	61.3	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
14000		54.8	61.3	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
12000		55.5	61.9	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
10000		58.7	66.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
9000		58.7	66.5	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
8000		63.2	71.0	72.3	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
7000		63.9	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
6000		63.9	71.6	72.9	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
5000		64.5	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
4500		64.5	72.3	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
4000		66.5	75.5	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3500		67.1	76.1	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
3000		71.6	81.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2500		72.3	82.6	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2000		74.2	85.2	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1800		74.2	85.2	90.3	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
1500		74.8	87.1	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.2
1200		74.8	87.1	92.3	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1000		74.8	87.1	92.3	94.2	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
900		74.8	87.1	92.3	94.8	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
800		74.8	87.1	92.3	95.5	95.5	96.1	96.1	96.1	96.1	96.1	96.1	96.1
700		74.8	87.1	93.6	96.1	96.1	96.8	96.8	96.8	96.8	96.8	96.8	96.8
600		74.8	87.1	93.6	96.8	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
500		74.8	87.1	93.6	96.8	97.4	98.1	98.1	98.1	98.1	98.1	98.1	98.1
400		74.8	87.1	93.6	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
300		74.8	87.1	93.6	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
200		74.8	87.1	93.6	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
100		74.8	87.1	93.6	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
0		74.8	87.1	93.6	96.8	97.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

YEARS

OCT

STATION NAME

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		49.7	58.7	61.9	62.6	62.6	63.2	63.2	63.2	63.2	63.2
≥ 20000		52.9	62.6	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 18000		52.9	62.6	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 16000		52.9	62.6	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 14000		52.9	62.6	65.8	66.5	66.5	67.1	67.1	67.1	67.1	67.1
≥ 12000		53.6	63.2	66.5	67.1	67.1	67.7	67.7	67.7	67.7	67.7
≥ 10000		57.4	67.7	71.0	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 9000		57.4	67.7	71.0	71.6	71.6	72.3	72.3	72.3	72.3	72.3
≥ 8000		60.7	71.6	74.8	75.5	75.5	76.1	76.1	76.1	76.1	76.1
≥ 7000		61.9	72.9	76.1	76.8	76.8	77.4	77.4	77.4	77.4	77.4
≥ 6000		61.9	72.9	76.1	76.8	76.8	77.4	77.4	77.4	77.4	77.4
≥ 5000		63.2	74.2	77.4	78.1	78.1	78.7	78.7	78.7	78.7	78.7
≥ 4500		63.2	74.2	77.4	78.1	78.1	78.7	78.7	78.7	78.7	78.7
≥ 4000		65.8	77.4	80.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9
≥ 3500		65.8	77.4	80.7	81.3	81.3	81.9	81.9	81.9	81.9	81.9
≥ 3000		70.3	82.6	86.5	87.1	87.1	87.7	87.7	87.7	87.7	87.7
≥ 2500		72.3	85.2	89.0	89.7	89.7	90.3	90.3	90.3	90.3	90.3
≥ 2000		73.6	87.1	91.6	92.3	92.3	92.9	92.9	92.9	92.9	92.9
≥ 1800		73.6	87.1	91.6	92.3	92.3	92.9	92.9	92.9	92.9	92.9
≥ 1500		73.6	87.1	91.6	92.3	92.3	92.9	92.9	92.9	92.9	92.9
≥ 1200		73.6	87.7	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2
≥ 1000		73.6	87.7	92.3	93.6	93.6	94.2	94.2	94.2	94.2	94.2
≥ 900		74.2	88.4	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1
≥ 800		74.2	88.4	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1
≥ 700		74.2	88.4	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1
≥ 600		74.2	88.4	93.6	95.5	95.5	96.1	96.1	96.1	96.1	96.1
≥ 500		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 400		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 300		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 200		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 100		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1
≥ 0		74.2	88.4	94.8	97.4	97.4	98.1	98.1	98.1	98.1	98.1

155

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
13769

STATION NAME  
OCEANA, VIRGINIA

73-77

YEARS

MONTH  
OCT

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		46.6	52.4	55.2	56.3	56.4	56.9	57.5	57.7	57.7	57.7	57.7
≥ 20000		50.5	57.3	60.2	61.5	61.5	62.1	62.7	62.7	62.8	62.9	62.9
≥ 18000		50.5	57.3	60.2	61.5	61.5	62.1	62.7	62.7	62.8	62.9	62.9
≥ 16000		50.5	57.3	60.2	61.5	61.5	62.1	62.7	62.7	62.8	62.9	62.9
≥ 14000		50.7	57.4	60.4	61.6	61.7	62.3	62.8	63.0	63.1	63.1	63.2
≥ 12000		51.5	58.3	61.3	62.5	62.6	63.2	63.7	63.9	64.0	64.0	64.0
≥ 10000		54.2	61.5	65.0	66.3	66.4	66.9	67.5	67.7	67.8	67.8	67.9
≥ 9000		54.4	61.8	65.3	66.6	66.7	67.3	67.8	68.1	68.2	68.2	68.2
≥ 8000		58.2	66.6	70.4	71.9	71.9	72.5	73.1	73.3	73.4	73.5	73.6
≥ 7000		59.0	67.4	71.2	72.7	72.7	73.3	73.9	74.1	74.2	74.3	74.4
≥ 6000		59.4	67.9	71.7	73.2	73.2	73.8	74.4	74.6	74.7	74.8	74.9
≥ 5000		60.6	69.2	73.0	74.4	74.5	75.1	75.7	75.9	76.0	76.1	76.2
≥ 4500		60.8	69.4	73.2	74.7	74.8	75.3	75.9	76.1	76.2	76.3	76.5
≥ 4000		62.3	71.5	75.3	76.9	77.0	77.6	78.2	78.4	78.5	78.6	78.7
≥ 3500		62.9	72.0	75.9	77.5	77.6	78.2	78.7	79.0	79.0	79.1	79.3
≥ 3000		66.0	75.7	80.3	82.0	82.1	82.7	83.2	83.5	83.5	83.6	83.8
≥ 2500		67.7	77.7	82.8	84.6	84.7	85.2	85.8	86.1	86.1	86.2	86.4
≥ 2000		69.0	79.5	85.1	87.2	87.3	87.9	88.5	88.7	88.7	88.8	89.0
≥ 1800		69.0	79.7	85.3	87.4	87.6	88.2	88.7	89.0	89.0	89.1	89.3
≥ 1500		70.6	82.0	87.7	90.1	90.2	90.9	91.5	91.7	91.7	91.9	92.1
≥ 1200		71.1	82.8	88.7	91.3	91.5	92.2	92.7	93.0	93.0	93.2	93.4
≥ 1000		71.5	83.4	89.4	92.2	92.4	93.2	93.7	94.0	94.0	94.1	94.4
≥ 900		71.6	83.6	89.9	93.0	93.2	94.0	94.5	94.8	94.8	94.9	95.1
≥ 800		71.6	83.6	90.1	93.5	93.7	94.6	95.2	95.4	95.4	95.6	95.8
≥ 700		71.6	83.6	90.3	94.0	94.2	95.2	96.0	96.2	96.3	96.4	96.6
≥ 600		71.7	83.7	90.4	94.2	94.4	95.5	96.2	96.5	96.5	96.6	96.9
≥ 500		71.7	83.8	90.8	94.8	95.3	96.4	97.2	97.5	97.5	97.7	97.9
≥ 400		71.7	83.9	90.9	94.9	95.6	96.9	97.7	98.1	98.2	98.2	98.4
≥ 300		71.7	83.9	90.9	94.9	95.6	96.9	97.7	98.1	98.3	98.4	98.5
≥ 200		71.7	84.0	91.1	95.1	95.7	97.1	98.1	98.6	98.6	98.9	99.2
≥ 100		71.7	84.0	91.1	95.1	95.7	97.1	98.2	98.7	98.8	99.1	99.5
0		71.7	84.0	91.1	95.1	95.7	97.1	98.2	98.7	98.8	99.1	99.6

1240

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SMOS

2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

NOV

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING	50.7	59.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 20000	52.7	63.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
18000	52.7	63.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
16000	52.7	63.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
14000	52.7	63.3	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
12000	52.7	64.0	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
10000	56.0	68.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
9000	56.0	68.0	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
8000	60.7	73.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
7000	62.0	74.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
6000	63.3	76.0	78.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
5000	66.7	79.3	82.0	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
4500	66.7	80.7	83.3	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
4000	67.3	82.0	84.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
3500	68.0	82.7	85.3	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
3000	71.3	86.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2500	73.3	88.0	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2000	74.0	90.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1800	74.0	90.0	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
1500	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1200	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1000	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
900	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
800	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
700	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
600	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
500	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
400	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
300	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
200	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
100	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
0	74.0	90.0	94.7	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

NOV

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½
NO CEILING	54.7	62.7	66.0	68.0	68.0	68.0	68.7	68.7	68.7	68.7	68.7
≥ 20000	56.0	64.0	67.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 18000	56.0	64.0	67.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 16000	56.0	64.0	67.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 14000	56.0	64.0	67.3	69.3	69.3	69.3	70.0	70.0	70.0	70.0	70.0
≥ 12000	56.7	65.3	68.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3
≥ 10000	57.3	66.0	70.0	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7
≥ 9000	57.3	66.0	70.0	72.0	72.0	72.0	72.7	72.7	72.7	72.7	72.7
≥ 8000	66.0	74.7	78.7	80.7	80.7	80.7	81.3	81.3	81.3	81.3	81.3
≥ 7000	68.0	76.7	80.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3
≥ 6000	68.0	76.7	80.7	82.7	82.7	82.7	83.3	83.3	83.3	83.3	83.3
≥ 5000	70.0	78.7	82.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 4500	70.0	78.7	82.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 4000	70.0	78.7	82.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 3500	70.0	78.7	82.7	84.7	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 3000	72.0	80.7	84.7	87.3	87.3	87.3	88.0	88.0	88.0	88.0	88.0
≥ 2500	72.7	81.3	85.3	88.0	88.0	88.0	88.7	88.7	88.7	88.7	88.7
≥ 2000	73.3	82.7	86.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3
≥ 1800	73.3	82.7	86.7	90.7	90.7	90.7	91.3	91.3	91.3	91.3	91.3
≥ 1500	73.3	84.7	89.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0
≥ 1200	73.3	84.7	89.3	93.3	93.3	93.3	94.0	94.0	94.0	94.0	94.0
≥ 1000	73.3	84.7	90.0	94.0	94.0	94.0	95.3	95.3	95.3	95.3	95.3
≥ 900	73.3	85.3	90.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 800	73.3	85.3	90.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 700	73.3	85.3	90.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 600	73.3	85.3	90.7	94.7	94.7	94.7	95.3	95.3	95.3	95.3	95.3
≥ 500	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 400	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 300	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 200	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
≥ 100	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7
0	73.3	85.3	91.3	95.3	95.3	95.3	96.7	96.7	96.7	96.7	96.7

TOTAL NUMBER OF OBSERVATIONS

150

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

NDV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING		46.0	54.0	59.3	61.3	61.3	62.0	62.7	62.7	62.7	63.3	64.0
≥ 20000		47.3	56.7	62.0	64.0	64.0	64.7	66.7	66.7	66.7	67.3	68.0
18000		47.3	56.7	62.0	64.0	64.0	64.7	66.7	66.7	66.7	67.3	68.0
16000		47.3	56.7	62.0	64.0	64.0	64.7	66.7	66.7	66.7	67.3	68.0
14000		47.3	56.7	62.0	64.0	64.0	64.7	66.7	66.7	66.7	67.3	68.0
12000		47.3	56.7	62.0	64.0	64.0	64.7	66.7	66.7	66.7	67.3	68.0
10000		48.7	60.0	65.3	67.3	67.3	68.0	70.0	70.0	70.0	70.7	71.3
9000		48.7	60.0	65.3	67.3	67.3	68.0	70.0	70.0	70.0	70.7	71.3
8000		51.3	64.0	69.3	71.3	71.3	72.7	75.3	75.3	75.3	76.0	76.7
7000		53.3	66.0	71.3	74.0	74.0	75.3	78.0	78.0	78.0	78.7	79.3
6000		53.3	66.0	71.3	74.0	74.0	75.3	78.0	78.0	78.0	78.7	79.3
5000		53.3	66.0	71.3	74.0	74.0	75.3	78.0	78.0	78.0	78.7	79.3
4500		53.3	66.7	72.0	74.7	74.7	76.0	78.7	78.7	78.7	79.3	80.0
4000		56.0	69.3	74.7	78.0	78.0	79.3	82.0	82.0	82.0	82.7	83.3
3500		56.7	70.0	75.3	79.3	79.3	80.7	83.3	83.3	83.3	84.0	84.7
3000		58.7	72.0	77.3	81.3	81.3	82.7	85.3	85.3	85.3	86.0	86.7
2500		58.7	72.0	77.3	82.0	82.0	83.3	86.0	86.0	86.0	86.7	87.3
2000		59.3	72.7	78.7	83.3	83.3	85.3	88.0	88.0	88.0	88.7	89.3
1800		59.3	72.7	78.7	83.3	83.3	85.3	88.0	88.0	88.0	88.7	89.3
1500		60.0	73.3	79.3	84.7	84.7	85.3	90.0	90.0	90.0	90.7	91.3
1200		60.0	73.3	79.3	84.7	84.7	85.3	90.0	90.0	90.0	90.7	91.3
1000		60.0	74.7	80.7	86.0	86.0	87.3	91.3	91.3	91.3	92.0	92.7
900		60.0	74.7	80.7	86.0	86.0	87.3	91.3	91.3	91.3	92.0	92.7
800		60.0	74.7	81.3	86.7	86.7	87.3	92.0	92.0	92.0	92.7	93.3
700		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
600		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
500		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
400		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
300		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
200		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
100		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3
0		60.0	75.3	82.0	88.0	88.0	89.3	94.0	94.0	94.0	94.7	95.3

TOTAL NUMBER OF OBSERVATIONS 150

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000	56.0	58.7	59.3	60.0	60.0	60.0	60.0	60.0	60.7	60.7	60.7	60.7	60.7
≥ 18000	61.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 16000	61.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 14000	61.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 12000	61.3	64.0	64.7	65.3	65.3	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0
≥ 10000	62.7	65.3	66.7	67.3	67.3	67.3	67.3	67.3	67.3	68.0	68.0	68.0	68.0
≥ 9000	64.7	68.7	70.0	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3
≥ 8000	64.7	68.7	70.0	70.7	70.7	70.7	70.7	70.7	71.3	71.3	71.3	71.3	71.3
≥ 7000	68.0	73.3	74.7	75.3	75.3	75.3	75.3	75.3	76.0	76.0	76.0	76.0	76.0
≥ 6000	68.0	74.0	75.3	76.7	76.7	76.7	76.7	76.7	77.3	77.3	77.3	77.3	77.3
≥ 5000	69.3	74.7	76.0	77.3	77.3	77.3	77.3	77.3	78.0	78.0	78.0	78.0	78.0
≥ 4500	70.0	75.3	76.7	78.0	78.0	78.0	78.0	78.0	78.7	78.7	78.7	78.7	78.7
≥ 4000	70.7	76.0	77.3	78.7	78.7	78.7	78.7	78.7	79.3	79.3	79.3	79.3	79.3
≥ 3500	71.3	76.7	78.0	79.3	79.3	79.3	79.3	79.3	80.0	80.0	80.0	80.0	80.0
≥ 3000	75.3	80.7	82.7	84.0	84.0	84.0	84.7	84.7	85.3	85.3	85.3	85.3	85.3
≥ 2500	77.3	82.7	84.7	86.0	86.0	86.0	86.7	86.7	87.3	87.3	87.3	87.3	87.3
≥ 2000	78.7	84.0	86.0	87.3	87.3	87.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7
≥ 1800	78.7	84.0	86.0	87.3	87.3	87.3	88.0	88.0	88.7	88.7	88.7	88.7	88.7
≥ 1500	79.3	85.3	87.3	88.7	88.7	88.7	89.3	89.3	90.0	90.0	90.0	90.0	90.0
≥ 1200	80.7	86.7	89.3	90.7	90.7	90.7	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 1000	80.7	86.7	89.3	90.7	90.7	90.7	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 900	80.7	86.7	89.3	90.7	90.7	90.7	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 800	80.7	86.7	89.3	90.7	90.7	90.7	91.3	91.3	92.0	92.0	92.0	92.0	92.0
≥ 700	81.3	87.3	90.0	92.0	92.0	92.0	92.7	92.7	93.3	93.3	93.3	93.3	93.3
≥ 600	81.3	87.3	90.7	92.7	92.7	92.7	94.0	94.0	94.7	94.7	94.7	94.7	94.7
≥ 500	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0
≥ 400	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0
≥ 300	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0
≥ 200	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0
≥ 100	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0
0	81.3	87.3	91.3	93.3	93.3	93.3	94.7	94.7	95.0	95.0	95.0	95.0	95.0

TOTAL NUMBER OF OBSERVATIONS

150



2

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

NOV

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		56.0	56.7	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 18000		64.7	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 16000		64.7	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 14000		64.7	65.3	65.3	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 12000		65.3	66.7	66.7	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
≥ 10000		69.3	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 9000		69.3	70.7	70.7	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
≥ 8000		72.7	75.3	76.0	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 7000		73.3	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 6000		73.3	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 5000		73.3	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4500		73.3	76.0	76.7	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
≥ 4000		74.0	76.7	77.3	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
≥ 3500		74.7	77.3	78.0	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 3000		79.3	82.7	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500		80.0	83.3	84.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
≥ 2000		81.3	85.3	86.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 1800		81.3	86.0	86.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1500		81.3	86.7	87.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1200		82.7	88.0	89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 1000		82.7	88.0	89.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
≥ 900		83.3	88.7	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 800		83.3	89.3	90.7	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 700		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 600		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 500		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 300		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 200		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 100		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
0		83.3	90.0	91.3	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0

150

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

## CEILING VERSUS VISIBILITY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

NOV  
MONTH

16

HOURS (L S T)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾
NO CEILING		52.7	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 20000		61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 18000		61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 16000		61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 14000		61.3	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
≥ 12000		63.3	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 10000		67.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 9000		67.3	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
8000		72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
7000		72.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
6000		72.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
5000		72.7	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
4500		73.3	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
4000		76.7	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
3500		79.3	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
3000		82.7	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
2500		82.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2000		84.7	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
1800		84.7	88.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1500		84.7	89.3	90.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3
1200		84.7	89.3	90.7	91.3	92.0	92.0	92.0	92.0	92.0	92.0
1000		85.3	90.0	91.3	92.0	92.7	93.3	93.3	93.3	93.3	93.3
900		85.3	90.0	91.3	92.0	92.7	93.3	93.3	93.3	93.3	93.3
800		85.3	90.0	91.3	92.0	92.7	93.3	93.3	93.3	93.3	93.3
700		85.3	90.0	91.3	92.0	92.7	93.3	93.3	93.3	93.3	93.3
600		85.3	90.0	92.0	92.7	94.0	94.0	94.0	94.0	94.0	94.0
500		85.3	90.0	92.0	92.7	95.3	95.3	95.3	95.3	95.3	95.3
400		85.3	90.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0
300		85.3	90.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0
200		85.3	90.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0
100		85.3	90.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0
0		85.3	90.0	92.0	93.3	96.0	96.0	96.0	96.0	96.0	96.0

TOTAL NUMBER OF OBSERVATIONS

130

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

YEARS

NOV  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		52.0	56.7	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 18000		56.0	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 16000		56.0	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 14000		56.0	62.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
≥ 12000		56.7	62.7	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0	64.0
≥ 10000		62.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 9000		62.0	68.7	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 8000		66.0	73.3	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 7000		67.3	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 6000		57.3	74.7	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
≥ 5000		68.0	75.3	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
≥ 4500		70.0	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 4000		71.3	79.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 3500		74.7	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 3000		75.3	83.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
≥ 2500		76.7	84.7	87.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
≥ 2000		76.7	85.3	88.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 1800		77.3	86.0	88.7	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
≥ 1500		77.3	86.7	89.3	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
≥ 1200		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1000		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 900		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 800		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 700		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 600		77.3	86.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 500		78.0	88.0	91.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
≥ 400		78.0	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 300		78.0	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 200		78.0	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
≥ 100		78.0	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
0		78.0	88.7	92.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0

150

TOTAL NUMBER OF OBSERVATIONS



## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

NOV

MONTH

22

HOURS (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		51.3	58.7	66.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
≥ 18000		56.0	63.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 16000		56.0	63.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 14000		56.0	63.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
≥ 12000		56.7	64.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 10000		58.7	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
≥ 9000		58.7	66.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
8000		64.0	72.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
7000		66.0	74.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
6000		68.0	76.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
5000		69.3	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4500		69.3	78.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
4000		72.0	82.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
3500		72.7	82.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
3000		75.3	85.3	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
2500		76.0	86.0	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
2000		78.0	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1800		78.0	88.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
1500		78.0	88.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
1200		78.0	88.7	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
1000		78.7	89.3	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
900		79.3	90.0	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
800		80.0	90.7	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
700		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
600		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
500		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
400		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
300		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
200		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
100		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
0		80.7	91.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7

TOTAL NUMBER OF OBSERVATIONS

150

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

NOV  
MONTH  
ALL  
HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ 5/16
NO CEILING												
≥ 20000	52.4	57.6	59.4	60.2	60.2	60.2	60.3	60.4	60.4	60.5	60.6	60.7
AI 18000	56.9	62.7	64.6	65.3	65.3	65.3	65.4	65.8	65.8	65.8	65.9	66.0
AI 16000	56.9	62.7	64.6	65.3	65.3	65.3	65.4	65.8	65.8	65.8	65.9	66.0
AI 14000	56.9	62.7	64.6	65.3	65.3	65.3	65.4	65.8	65.8	65.8	65.9	66.0
AI 12000	56.9	62.7	64.6	65.3	65.3	65.3	65.4	65.8	65.8	65.8	65.9	66.0
AI 10000	57.7	63.7	65.7	66.4	66.4	66.4	66.5	66.8	66.8	66.9	67.0	67.1
AI 9000	60.5	67.2	69.3	70.0	70.0	70.0	70.1	70.4	70.4	70.5	70.6	70.7
AI 8000	60.5	67.2	69.3	70.0	70.0	70.0	70.1	70.4	70.4	70.5	70.6	70.7
AI 7000	65.1	72.5	74.7	75.4	75.4	75.4	75.6	76.0	76.0	76.1	76.3	76.3
AI 6000	66.4	73.8	76.0	76.9	76.9	76.9	77.1	77.5	77.5	77.6	77.8	77.8
AI 5000	66.9	74.4	76.6	77.5	77.5	77.5	77.7	78.1	78.1	78.2	78.3	78.4
AI 4500	67.9	75.5	77.7	78.6	78.6	78.6	78.8	79.2	79.2	79.3	79.4	79.5
AI 4000	68.0	75.8	78.0	78.9	78.9	78.9	79.1	79.5	79.5	79.6	79.8	79.8
AI 3500	69.6	77.8	80.0	81.0	81.0	81.0	81.2	81.6	81.6	81.7	81.8	81.9
AI 3000	70.5	78.7	80.9	82.0	82.0	82.0	82.2	82.6	82.6	82.7	82.8	82.9
AI 2500	73.7	81.9	84.3	85.7	85.7	85.7	85.9	86.3	86.3	86.4	86.6	86.7
AI 2000	74.5	82.8	85.3	86.7	86.7	86.7	86.9	87.3	87.3	87.4	87.6	87.7
AI 1800	75.8	84.4	87.3	89.0	89.0	89.0	89.3	89.8	89.8	89.8	90.0	90.1
AI 1500	75.8	84.6	87.4	89.2	89.2	89.2	89.5	89.9	89.9	90.0	90.2	90.3
AI 1200	75.9	85.4	88.5	90.4	90.4	90.4	90.9	91.3	91.3	91.4	91.6	91.7
AI 1000	76.3	85.8	89.1	91.1	91.1	91.1	91.6	92.3	92.3	92.4	92.6	92.7
AI 900	76.5	86.3	89.6	91.7	91.7	91.7	92.3	92.9	92.9	93.1	93.3	93.3
AI 800	76.7	86.5	89.8	92.0	92.0	92.0	92.7	93.3	93.3	93.4	93.6	93.7
AI 700	76.8	86.7	90.2	92.3	92.3	92.3	93.1	93.7	93.7	93.8	94.1	94.2
AI 600	76.9	87.0	90.5	92.8	92.8	92.8	93.1	93.8	93.8	94.3	94.8	94.8
AI 500	76.9	87.0	90.7	93.2	93.2	93.2	94.3	94.9	94.9	95.2	95.4	95.5
AI 400	77.0	87.2	91.1	93.6	93.6	93.6	94.3	95.2	95.2	96.3	96.6	96.9
AI 300	77.0	87.3	91.2	93.8	93.8	93.8	94.5	95.6	95.6	96.8	97.1	97.4
AI 200	77.0	87.3	91.2	93.8	93.8	93.8	94.6	95.8	95.8	97.0	97.4	98.2
AI 100	77.0	87.3	91.2	93.8	93.8	93.8	94.6	95.9	95.9	97.2	97.9	98.7
0	77.0	87.3	91.2	93.8	93.8	93.8	94.6	95.9	95.9	97.2	98.2	99.4
												100.0

TOTAL NUMBER OF OBSERVATIONS

1200

# CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

OCEANA, VIRGINIA

73-77

YEARS

DEC

STATION NAME

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING	52.3	56.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 20000	56.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 18000	56.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 16000	56.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 14000	56.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 12000	56.1	60.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 10000	60.7	65.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 9000	60.7	65.2	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
≥ 8000	64.5	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 7000	67.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 6000	67.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 5000	67.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4500	67.7	72.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 4000	68.4	74.2	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
≥ 3500	69.0	74.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 3000	69.7	76.8	78.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
≥ 2500	71.6	78.7	80.7	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
≥ 2000	72.9	80.7	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1800	72.9	80.7	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1500	75.5	84.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1200	76.8	85.8	87.7	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 1000	76.8	86.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 900	76.8	86.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 800	76.8	86.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 700	76.8	87.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 600	76.8	87.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 500	76.8	87.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 400	76.8	87.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 300	76.8	87.7	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 200	76.8	87.7	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 100	76.8	87.7	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
0	76.8	87.7	92.3	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155



12

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
13769

STATION NAME  
OCEANA, VIRGINIA

YEARS  
73-77

DEF  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

04  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING		47.7	51.0	51.6	51.6	51.6	52.3	52.3	52.3	52.3	52.3	52.3	52.9
≥ 20000		51.6	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 18000		51.6	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 16000		51.6	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 14000		51.6	54.8	55.5	55.5	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.8
≥ 12000		52.3	55.5	56.1	56.1	56.1	56.8	56.8	56.8	56.8	56.8	56.8	57.4
≥ 10000		54.8	58.1	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	60.0
≥ 9000		54.8	58.1	58.7	58.7	58.7	59.4	59.4	59.4	59.4	59.4	59.4	60.0
8000		58.7	63.2	64.5	64.5	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.8
7000		60.7	65.2	66.5	66.5	66.5	67.1	67.1	67.1	67.1	67.1	67.1	67.7
6000		61.3	65.8	67.1	67.1	67.1	68.4	68.4	68.4	68.4	68.4	68.4	69.0
5000		61.9	67.1	68.4	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	70.3
4500		61.9	67.1	68.4	68.4	68.4	69.7	69.7	69.7	69.7	69.7	69.7	70.3
4000		65.8	72.3	74.2	74.2	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.8
3500		65.8	72.3	74.2	74.2	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.8
3000		67.1	74.2	76.1	76.1	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.7
2500		69.0	76.1	78.1	78.1	79.4	80.7	80.7	80.7	80.7	80.7	80.7	81.3
2000		69.7	78.1	80.0	80.0	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.9
1800		69.7	78.1	80.0	80.0	81.9	83.2	83.2	83.2	83.2	83.2	83.2	83.9
1500		71.6	80.0	81.9	81.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8
1200		71.6	80.0	81.9	81.9	83.9	85.2	85.2	85.2	85.2	85.2	85.2	85.8
1000		72.3	80.7	83.2	83.2	85.2	86.5	86.5	86.5	86.5	86.5	86.5	87.1
900		72.9	81.3	84.5	84.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	88.4
800		72.9	81.3	84.5	84.5	86.5	87.7	87.7	87.7	87.7	87.7	87.7	88.4
700		72.9	82.6	87.1	87.1	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6
600		73.6	83.2	87.7	87.7	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.6
500		73.6	83.2	87.7	87.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	92.9
400		73.6	83.2	87.7	87.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	92.9
300		73.6	83.2	87.7	87.7	90.3	91.6	91.6	91.6	91.6	91.6	91.6	92.9
200		73.6	83.2	87.7	87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	93.6
100		73.6	83.2	87.7	87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	93.6
0		73.6	83.2	87.7	87.7	91.0	92.3	92.3	92.3	92.3	92.3	92.3	93.6

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
13769

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

DEC  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													
≥ 20000		45.8	47.1	48.4	49.7	50.3	51.6	51.6	51.6	51.6	51.6	51.6	51.6
≥ 18000		46.0	50.3	51.6	52.9	53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 16000		49.0	50.3	51.6	52.9	53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 14000		49.0	50.3	51.6	52.9	53.6	54.8	54.8	54.8	54.8	54.8	54.8	54.8
≥ 12000		50.3	51.6	52.9	54.2	54.8	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 10000		52.9	54.2	56.1	57.4	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 9000		52.9	54.2	56.1	57.4	58.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 8000		55.5	57.4	59.4	60.7	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000		56.8	58.7	60.7	61.9	62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 6000		56.8	58.7	60.7	61.9	62.6	64.5	64.5	64.5	64.5	64.5	64.5	64.5
≥ 5000		57.4	60.0	61.9	63.2	63.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 4500		58.1	60.7	62.6	63.9	64.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4000		60.7	63.9	66.5	67.7	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3500		60.7	63.9	66.5	67.7	69.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000		63.9	67.7	70.3	71.6	72.9	75.5	75.5	75.5	75.5	75.5	75.5	75.5
≥ 2500		65.8	70.3	72.9	74.2	75.5	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2000		66.5	71.0	73.6	74.8	76.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 1800		66.5	72.3	74.8	76.1	77.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0
≥ 1500		67.7	73.6	76.1	78.7	80.0	82.6	82.6	82.6	82.6	82.6	82.6	82.6
≥ 1200		68.4	74.2	76.8	79.4	80.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2
≥ 1000		69.0	74.8	77.4	80.0	81.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 900		69.7	75.5	78.7	81.3	83.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 800		69.7	76.1	80.0	82.6	84.5	87.1	87.1	87.1	87.1	87.1	87.1	87.1
≥ 700		69.7	76.8	80.7	83.9	86.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 600		69.7	77.4	81.9	85.2	87.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 500		69.7	77.4	81.9	85.8	88.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 400		69.7	77.4	81.9	86.5	89.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 300		69.7	77.4	81.9	86.5	89.0	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 200		69.7	77.4	81.9	86.5	89.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
≥ 100		69.7	77.4	81.9	86.5	89.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2
0		69.7	77.4	81.9	86.5	89.0	94.2	94.2	94.2	94.2	94.2	94.2	94.2

TOTAL NUMBER OF OBSERVATIONS

155

1225 54181

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ ¾	≥ ½	≥ 5/16
NO CEILING ≥ 20000		45.8	47.1	47.1	47.1	47.1	47.1	47.1	47.7	47.7	47.7	47.7
AI 18000		51.6	52.9	52.9	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6
AI 16000		51.6	52.9	52.9	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6
AI 14000		51.6	52.9	52.9	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6
AI 12000		51.6	52.9	52.9	52.9	52.9	52.9	52.9	53.6	53.6	53.6	53.6
AI 10000		52.3	54.2	54.2	54.2	54.2	54.2	54.2	54.8	54.8	54.8	54.8
AI 9000		52.9	54.8	54.8	54.8	54.8	54.8	54.8	55.5	55.5	55.5	55.5
AI 8000		61.9	64.5	64.5	64.5	64.5	64.5	64.5	65.2	65.2	65.2	65.2
AI 7000		64.5	67.1	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.7	67.7
AI 6000		65.2	67.7	67.7	67.7	67.7	67.7	67.7	68.4	68.4	68.4	68.4
AI 5000		65.8	69.0	69.0	69.0	69.0	69.0	69.0	69.7	69.7	69.7	69.7
AI 4500		65.8	69.0	69.7	69.7	69.7	69.7	69.7	70.3	70.3	70.3	70.3
AI 4000		66.5	69.7	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
AI 3500		66.5	69.7	70.3	70.3	70.3	70.3	70.3	71.0	71.0	71.0	71.0
AI 3000		67.1	71.0	71.6	72.3	72.3	72.3	72.3	72.9	72.9	72.9	72.9
AI 2500		71.0	73.5	76.1	76.8	76.8	76.8	76.8	77.4	77.4	77.4	77.4
AI 2000		72.3	77.4	78.7	79.4	79.4	79.4	79.4	80.0	80.0	80.0	80.0
AI 1800		72.9	78.7	80.7	81.3	81.3	81.3	81.3	82.6	82.6	82.6	82.6
AI 1500		74.2	80.7	83.2	83.9	83.9	83.9	83.9	85.8	85.8	85.8	85.8
AI 1200		76.8	83.2	85.8	87.1	87.1	87.1	87.1	89.0	89.0	89.0	89.0
AI 1000		76.8	83.2	85.8	87.1	87.1	87.1	87.1	89.0	89.0	89.0	89.0
AI 900		76.8	84.5	87.1	89.0	89.0	89.0	89.0	91.0	91.0	91.0	91.0
AI 800		77.4	85.2	88.4	90.3	90.3	90.3	90.3	92.3	92.3	92.3	92.3
AI 700		77.4	85.8	89.7	91.6	91.6	91.6	91.6	94.2	94.2	94.2	94.2
AI 600		77.4	85.8	89.7	91.6	91.6	91.6	91.6	94.8	94.8	94.8	94.8
AI 500		77.4	85.8	89.7	91.6	91.6	91.6	91.6	95.5	95.5	95.5	95.5
AI 400		77.4	85.8	89.7	91.6	91.6	91.6	91.6	96.8	96.8	96.8	96.8
AI 300		77.4	85.8	89.7	91.6	91.6	91.6	91.6	96.8	96.8	96.8	96.8
AI 200		77.4	85.8	89.7	91.6	91.6	91.6	91.6	98.1	98.1	98.1	98.1
AI 100		77.4	85.8	89.7	91.6	91.6	91.6	91.6	98.1	98.1	98.1	98.1
AI 0		77.4	85.8	89.7	91.6	91.6	91.6	91.6	98.1	98.1	98.1	98.1

TOTAL NUMBER OF OBSERVATIONS

155



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

DEC  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													≥ 0
≥ 20000		41.9	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
≥ 18000		50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 16000		50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 14000		50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 12000		50.3	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
≥ 10000		52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
≥ 9000		52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
8000		57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
7000		60.0	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
6000		60.7	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
5000		61.3	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
4500		63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
4000		66.5	67.7	67.7	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
3500		67.7	70.3	70.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
3000		71.6	74.2	74.2	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2500		73.6	76.8	76.8	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
2000		78.1	81.3	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
1800		78.7	81.9	82.6	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
1500		81.9	85.8	87.7	88.4	88.4	89.0	89.0	90.3	90.3	90.3	90.3	90.3
1200		83.2	87.7	89.7	90.3	90.3	91.0	91.0	92.3	92.3	92.3	92.3	92.3
1000		83.9	88.4	90.3	91.0	91.0	91.6	91.6	92.9	92.9	92.9	92.9	92.9
900		85.2	89.7	91.6	92.3	92.3	92.9	92.9	94.2	94.2	94.2	94.2	94.2
800		85.2	89.7	91.6	92.3	92.3	92.9	92.9	94.2	94.2	94.2	94.2	94.2
700		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
600		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
500		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
400		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
300		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
200		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
100		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1
0		85.2	89.7	92.3	94.2	94.2	94.8	94.8	96.1	96.1	96.1	96.1	96.1

TOTAL NUMBER OF OBSERVATIONS

155

12

12095-00101

5271

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769 STATION

OCEANA, VIRGINIA STATION NAME

73-77

YEARS

DEC MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

16 HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		45.2	45.8	45.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5
18000		52.3	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
16000		52.3	52.9	52.9	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
14000		52.9	53.6	53.6	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
12000		54.2	54.8	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
10000		56.8	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
9000		56.8	57.4	57.4	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
8000		60.7	61.9	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
7000		62.6	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
6000		62.6	64.5	65.8	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
5000		63.9	66.5	68.4	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
4500		65.2	67.7	69.7	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
4000		69.7	72.9	74.8	75.5	76.1	76.1	76.1	76.1	76.1	76.1	76.1
3500		71.0	74.8	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1
3000		74.8	79.4	81.3	81.9	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2500		77.4	81.9	83.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2000		79.4	83.9	85.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
1800		79.4	83.9	85.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4
1500		80.7	85.2	87.7	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3
1200		80.7	85.8	88.4	91.0	91.6	91.6	92.3	92.3	92.3	92.3	92.3
1000		81.3	86.5	89.0	91.6	92.3	92.3	93.6	93.6	93.6	93.6	93.6
900		81.3	86.5	89.0	91.6	92.3	92.3	93.6	93.6	93.6	93.6	93.6
800		81.9	87.1	89.7	92.3	92.9	93.6	94.2	94.2	94.2	94.2	94.2
700		81.9	87.1	89.7	92.9	93.6	94.2	94.8	94.8	94.8	94.8	94.8
600		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
500		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
400		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
300		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
200		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
100		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8
0		81.9	87.1	91.6	94.2	95.5	96.1	96.8	96.8	96.8	96.8	96.8

TOTAL NUMBER OF OBSERVATIONS

155

# CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

DEC

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

19

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ 0
NO CEILING	48.4	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 20000	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 18000	55.5	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 16000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 12000	56.1	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 10000	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 9000	58.1	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7	58.7
≥ 8000	61.9	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
≥ 7000	62.6	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
≥ 6000	63.2	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
≥ 5000	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4500	65.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
≥ 4000	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3500	67.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 3000	73.6	76.8	77.4	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 2500	74.8	78.7	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000	78.7	82.6	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1800	76.7	83.9	85.2	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
≥ 1500	80.7	85.8	87.1	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
≥ 1200	80.7	85.8	87.7	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
≥ 1000	80.7	85.8	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 900	80.7	85.8	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 800	80.7	85.8	88.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 700	81.3	86.5	89.7	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 600	81.3	86.5	90.3	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 500	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 400	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 300	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 200	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 100	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
0	81.3	86.5	91.6	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9

155

TOTAL NUMBER OF OBSERVATIONS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

DEC  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

22  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000		49.0	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3	50.3
≥ 18000		54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 16000		54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 14000		54.2	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1
≥ 12000		56.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 10000		63.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 9000		63.9	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.8
≥ 8000		67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000		67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 6000		67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 5000		67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4500		67.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 4000		70.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3500		70.3	72.9	73.6	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
≥ 3000		73.6	77.4	78.1	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7
≥ 2500		74.8	79.4	80.0	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
≥ 2000		78.1	82.6	83.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 1800		78.1	82.6	83.9	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
≥ 1500		80.7	86.5	88.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 1200		81.3	87.1	89.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
≥ 1000		81.3	87.7	89.7	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
≥ 900		81.3	87.7	90.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 800		81.9	88.4	91.0	92.9	93.6	93.6	93.6	93.6	93.6	93.6	93.6
≥ 700		81.9	88.4	91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 600		81.9	88.4	91.6	94.2	94.8	94.8	94.8	94.8	94.8	94.8	94.8
≥ 500		81.9	88.4	92.3	94.8	95.5	95.5	95.5	95.5	95.5	95.5	95.5
≥ 400		81.9	89.7	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 300		81.9	89.7	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 200		81.9	89.7	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
≥ 100		81.9	89.7	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4
0		81.9	89.7	93.6	96.8	97.4	97.4	97.4	97.4	97.4	97.4	97.4

TOTAL NUMBER OF OBSERVATIONS

155

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

13769  
STATION

OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

DEC  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼
NO CEILING														
≥ 20000	47.0	48.6	49.1	49.4	49.4	49.4	49.7	49.7	49.8	49.8	49.8	49.8	49.8	49.8
AI 18000	52.6	54.4	54.8	55.1	55.2	55.2	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.6
AI 16000	52.6	54.4	54.8	55.1	55.2	55.2	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.6
AI 14000	52.7	54.4	54.9	55.2	55.2	55.2	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.7
AI 12000	52.7	54.5	55.0	55.2	55.2	55.3	55.6	55.6	55.7	55.7	55.7	55.7	55.7	55.7
AI 10000	53.4	55.2	55.7	55.9	56.0	56.2	56.2	56.2	56.3	56.3	56.3	56.3	56.4	56.4
AI 9000	56.5	58.4	59.0	59.2	59.3	59.4	59.5	59.5	59.6	59.6	59.6	59.6	59.7	59.7
AI 8000	56.6	58.5	59.0	59.3	59.4	59.6	59.6	59.6	59.7	59.7	59.7	59.7	59.8	59.8
AI 7000	61.0	63.2	63.9	64.1	64.2	64.4	64.4	64.5	64.5	64.5	64.5	64.5	64.6	64.6
AI 6000	62.7	65.1	65.9	66.1	66.2	66.2	66.5	66.5	66.6	66.6	66.6	66.6	66.7	66.7
AI 5000	63.1	65.4	66.2	66.5	66.6	66.6	66.9	66.9	67.0	67.0	67.0	67.0	67.1	67.1
AI 4500	63.8	66.6	67.6	67.9	68.0	68.3	68.3	68.4	68.4	68.4	68.4	68.4	68.5	68.5
AI 4000	64.3	67.1	68.2	68.5	68.6	68.6	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.0
AI 3500	66.9	70.6	71.8	72.4	72.7	73.0	73.0	73.1	73.1	73.1	73.1	73.1	73.2	73.2
AI 3000	67.3	71.2	72.4	73.1	73.3	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.9	73.9
AI 2500	70.2	74.7	76.0	76.8	77.0	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.6	77.7
AI 2000	72.3	77.2	78.6	79.4	79.7	80.2	80.2	80.2	80.2	80.2	80.2	80.3	80.4	80.5
AI 1800	74.4	79.7	81.2	82.3	82.5	83.0	83.0	83.1	83.1	83.1	83.1	83.2	83.2	83.3
AI 1500	74.6	80.2	81.9	83.0	83.2	83.8	83.8	83.9	83.9	83.9	83.9	84.0	84.0	84.1
AI 1000	76.6	82.7	84.8	86.3	86.5	87.4	87.4	87.5	87.7	87.7	87.7	87.8	87.8	87.9
AI 900	77.4	83.7	85.9	87.5	87.7	88.6	88.6	88.8	89.0	89.0	89.0	89.1	89.2	89.2
AI 800	77.7	84.2	86.5	88.2	88.6	89.5	89.5	89.7	89.8	89.8	89.9	90.1	90.2	90.2
AI 700	78.1	84.7	87.3	89.1	89.4	90.4	90.4	90.5	90.6	90.7	90.8	91.0	91.1	91.1
AI 600	78.3	85.1	87.9	89.7	90.2	91.1	91.1	91.2	91.3	91.5	91.5	91.7	91.8	91.9
AI 500	78.4	85.6	89.0	91.1	91.8	92.7	93.0	93.2	93.4	93.5	93.5	93.6	93.8	93.9
AI 400	78.5	85.7	89.4	91.6	92.5	93.5	93.5	93.7	94.0	94.3	94.4	94.5	94.7	94.8
AI 300	78.5	85.7	89.7	92.0	93.0	94.0	94.3	94.5	94.9	95.1	95.1	95.2	95.4	95.5
AI 200	78.5	85.9	89.8	92.5	93.6	94.8	95.4	95.7	96.1	96.3	96.3	96.5	96.6	96.7
AI 100	78.5	85.9	90.1	92.7	93.9	95.3	95.9	96.1	96.7	96.9	96.9	97.1	97.3	97.3
AI 0	78.5	85.9	90.1	92.8	94.0	95.7	96.4	96.6	97.5	97.8	97.8	98.2	98.3	98.5
AI 0	78.5	85.9	90.1	92.8	94.0	95.7	96.5	96.7	97.7	98.2	98.2	98.6	98.7	99.3
AI 0	78.5	85.9	90.1	92.8	94.0	95.7	96.5	96.7	97.7	98.2	98.2	98.6	98.7	99.2

TOTAL NUMBER OF OBSERVATIONS

1240

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

CEILING VERSUS VISIBILITY

13769

OCEANA, VIRGINIA

73-77

ALL

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														≥ 0
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	
NO CEILING															
≥ 20000	43.0	47.9	51.0	52.9	53.2	53.6	53.8	53.9	53.9	53.9	53.9	54.0	54.0	54.1	54.2
≥ 18000	48.5	54.3	58.0	60.2	60.5	61.0	61.2	61.3	61.3	61.3	61.4	61.5	61.5	61.6	61.7
≥ 16000	48.5	54.3	58.0	60.3	60.5	61.0	61.2	61.3	61.3	61.4	61.4	61.5	61.5	61.6	61.7
≥ 14000	48.5	54.3	58.0	60.3	60.5	61.1	61.3	61.3	61.3	61.4	61.5	61.6	61.6	61.6	61.7
≥ 12000	48.7	54.6	58.3	60.6	60.9	61.3	61.6	61.7	61.7	61.7	61.8	61.8	61.9	61.9	62.0
≥ 10000	50.0	56.0	59.8	62.2	62.4	62.9	63.2	63.3	63.3	63.4	63.4	63.5	63.5	63.5	63.6
≥ 9000	53.1	59.7	63.8	66.3	66.6	67.1	67.3	67.4	67.5	67.5	67.6	67.6	67.7	67.7	67.8
≥ 8000	53.3	60.0	64.2	66.6	66.9	67.5	67.7	67.8	67.8	67.9	67.9	68.0	68.0	68.1	68.1
≥ 7000	57.2	64.8	69.3	71.9	72.2	72.8	73.0	73.1	73.2	73.2	73.3	73.3	73.4	73.4	73.5
≥ 6000	58.3	66.0	70.5	73.1	73.5	74.1	74.3	74.3	74.5	74.5	74.5	74.6	74.7	74.7	74.8
≥ 5000	58.8	66.5	71.0	73.7	74.1	74.6	74.9	74.9	75.0	75.1	75.1	75.2	75.2	75.3	75.4
≥ 4500	59.6	67.6	72.2	75.0	75.4	76.0	76.2	76.3	76.4	76.5	76.5	76.6	76.6	76.7	76.7
≥ 4000	59.8	67.9	72.5	75.3	75.7	76.3	76.6	76.6	76.7	76.8	76.8	76.9	76.9	77.0	77.1
≥ 3500	61.4	69.9	74.6	77.8	78.2	78.8	79.1	79.1	79.2	79.3	79.3	79.4	79.4	79.5	79.6
≥ 3000	62.0	70.6	75.3	78.6	79.0	79.6	79.9	79.9	80.0	80.1	80.1	80.2	80.2	80.3	80.4
≥ 2500	64.3	73.5	79.0	82.2	82.7	83.4	83.7	83.7	83.8	83.9	83.9	84.0	84.1	84.1	84.2
≥ 2000	65.7	75.3	80.9	84.3	84.8	85.5	85.9	85.9	86.1	86.1	86.2	86.3	86.3	86.4	86.5
≥ 1800	67.0	77.0	83.0	86.6	87.1	87.9	88.3	88.3	88.4	88.5	88.5	88.6	88.7	88.8	88.8
≥ 1500	67.1	77.3	83.3	86.9	87.4	88.2	88.6	88.6	88.8	88.8	88.9	89.0	89.0	89.1	89.2
≥ 1200	68.3	78.9	85.4	89.2	89.7	90.7	91.1	91.1	91.3	91.4	91.4	91.5	91.5	91.6	91.7
≥ 1000	68.6	79.5	86.1	90.1	90.6	91.6	92.1	92.1	92.3	92.4	92.4	92.5	92.5	92.6	92.7
≥ 900	68.8	79.9	86.7	90.8	91.4	92.5	93.0	93.0	93.3	93.4	93.4	93.5	93.5	93.6	93.7
≥ 800	69.0	80.1	87.1	91.2	91.8	93.0	93.5	93.5	93.7	93.8	93.9	94.0	94.0	94.1	94.2
≥ 700	69.1	80.3	87.4	91.7	92.3	93.5	94.1	94.1	94.4	94.5	94.5	94.6	94.6	94.7	94.8
≥ 600	69.1	80.5	87.7	92.1	92.9	94.2	94.8	94.8	95.1	95.2	95.2	95.3	95.4	95.5	95.6
≥ 500	69.2	80.7	88.0	92.6	93.3	94.7	95.4	95.5	95.8	95.9	95.9	96.1	96.1	96.2	96.3
≥ 400	69.2	80.7	88.3	93.0	93.8	95.4	96.2	96.2	96.6	96.7	96.7	96.9	96.9	97.0	97.1
≥ 300	69.2	80.8	88.4	93.2	94.1	95.8	96.7	96.8	97.2	97.3	97.4	97.5	97.5	97.7	97.8
≥ 200	69.2	80.8	88.5	93.4	94.4	96.1	97.1	97.2	97.7	97.8	97.8	98.0	98.0	98.2	98.3
≥ 100	69.2	80.8	88.5	93.4	94.4	96.3	97.3	97.4	98.0	98.2	98.3	98.6	98.6	98.8	98.9
≥ 0	69.2	80.8	88.5	93.4	94.4	96.3	97.4	97.5	98.1	98.4	98.4	98.8	98.9	99.2	99.5
0	69.2	80.8	88.5	93.4	94.4	96.3	97.4	97.5	98.1	98.4	98.4	98.8	98.9	99.3	100.0

TOTAL NUMBER OF OBSERVATIONS

14608



## SKY COVER

13760  
STATIONOCEANA, VIRGINIA  
STATION NAME73<sup>rd</sup> 77

PERIOD

JAN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JAN	01	30.3	3.9	5.8	5.2	1.9	1.3	3.9	3.9	3.2	2.6	38.1	155
	04	31.6	3.9	5.2	5.2	1.9	1.3	2.6	2.6	3.9	3.2	38.7	155
	07	15.5	6.5	2.6	5.8	3.9	3.9	5.8	3.9	7.7	3.9	40.6	155
	10	17.4	2.6	5.8	5.2	1.9	3.9	4.5	4.5	4.5	6.5	43.2	155
	13	15.5	5.2	3.2	3.9	4.5	2.6	1.9	7.7	4.5	11.0	39.4	155
	16	12.9	7.7	5.8	4.5	2.6	3.2	3.9	1.9	5.2	7.7	44.5	155
	19	24.5	3.2	3.9	4.5	3.2	2.6	1.9	3.9	5.8	2.6	43.9	155
	22	29.0	4.5	2.6	3.9	4.5	1.9	2.6	1.3	4.5	2.6	42.6	155
TOTALS		22.1	4.8	4.4	4.8	3.1	2.6	3.4	3.7	4.9	5.0	41.4	1240

**MONTH**  
**FEB**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

5704 SKY COVER JAN 68

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
FEB	01	38.3	2.8	5.7	3.5	1.4	2.1	2.1	3.5	5.0	2.8	32.6	4.7	141
	04	34.0	2.1	3.5	7.1	1.4	2.8		2.8	5.0	5.7	35.5	5.2	141
	07	17.7	1.4	10.6	11.3	2.1	2.1	4.3	2.1	5.0	9.2	34.0	5.8	141
	10	24.1	7.1	4.3	2.8	2.8	2.1	2.1	2.8	6.4	8.5	36.9	5.8	141
	13	25.5	5.7	2.8	2.8	.7	4.3	2.1	4.3	5.7	5.7	40.4	5.9	141
	16	25.5	2.8	2.8	2.8	1.4	2.8	2.8	5.7	5.7	7.1	40.4	6.1	141
	19	25.5	6.4	6.4	7.1	2.8	2.1	2.1	3.5	7.1	7.1	29.8	5.2	141
	22	33.3	5.0	5.7	5.0	2.8	2.8	2.1	2.1	3.5	5.0	32.6	4.8	141
TOTALS		28.0	4.2	5.2	5.3	1.9	2.6	2.2	3.4	5.4	6.4	35.3	5.4	1128

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
MAR	01	29.7	2.6	7.7	7.1	1.9	1.3	1.3	1.9	3.9	1.3	41.3	5.3	155
	04	28.4	3.2	5.2	3.2	3.9	3.9	1.3	3.2	2.6	1.3	43.9	5.6	155
	07	14.2	4.5	3.9	2.6	1.9	2.6	1.9	5.8	7.1	5.2	50.3	7.0	155
	10	14.8	5.2	5.2	2.6	4.5	1.3	1.9	2.6	8.4	7.1	46.5	6.7	155
	13	14.2	3.9	5.8	3.9	3.2	1.9	4.5	2.6	5.8	5.8	48.4	6.8	155
	16	15.5	4.5	1.9	4.5	1.9	1.9	1.3	3.9	9.0	4.5	51.0	7.0	155
	19	15.5	4.5	1.9	5.2	3.2	2.6	.6	6.5	13.5	4.5	41.9	6.7	155
	22	25.2	1.3	3.2	5.8	5.2	3.2	3.9	2.6	1.9	5.2	42.6	5.9	155
TOTALS		19.7	3.7	4.4	4.4	3.2	2.3	2.1	3.6	6.5	4.4	45.7	6.4	1240



**APR**  
**MONTH**

5704 SKY COVER JAN 68

NAVWEA.SERV.COM

AD-A063 837

NAVAL WEATHER SERVICE DETACHMENT ASHEVILLE N C  
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS) OCEANA, --ETC(U)  
JUL 78

F/G 4/2

UNCLASSIFIED

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4 OF 4  
AD  
A063 837

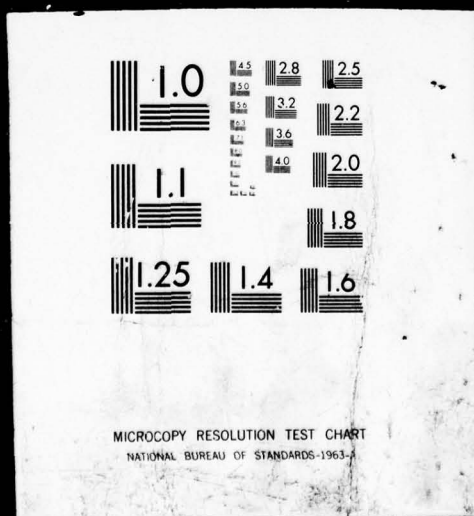


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3-79  
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4 OF 4

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A063 837





## SKY COVER

d

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

7-77

PERIOD

MAY  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
MAY	01	24.5	3.2	2.6	9.0	5.2	3.9	4.5	2.6	7.1	3.9	33.5	155
	04	24.5	5.2	8.4	6.5	3.2	2.6	1.9	4.5	8.4	1.3	33.5	155
	07	19.4	3.2	5.8	2.6	4.5	5.2	1.3	7.1	7.7	5.8	37.4	155
	10	18.1	2.6	5.2	7.7	3.2	3.9	1.9	4.5	7.1	7.7	36.1	155
	13	8.4	2.6	5.8	3.2	2.6	4.5	5.8	5.8	11.0	6.5	43.9	155
	16	7.7	2.6	3.9	5.8	7.7	5.8	3.9	5.8	12.3	9.0	35.5	155
	19	9.7	5.8	2.6	4.5	5.8	5.8	4.5	5.2	9.7	5.2	41.3	155
	22	13.5	1.3	7.1	11.0	7.7	3.9	5.2	4.5	9.7	3.2	32.9	155
TOTALS		15.7	3.3	5.2	6.3	5.0	4.5	3.6	5.0	9.1	5.3	37.0	1240

5704 SKY COVER JAN 68

## SKY COVER

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

PERIOD

JUN  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
JUN	01	23.3	.7	6.0	6.0	8.7	6.7	2.0	8.0	8.0	3.3	27.3	150
	04	10.7	6.7	9.3	5.3	8.0	6.7	2.0	8.7	10.7	6.0	26.0	150
	07	11.3	4.0	6.7	11.3	3.3	6.0	1.3	5.3	14.7	5.3	30.7	150
	10	8.0	4.0	6.0	6.7	6.7	5.3	5.2	4.7	14.0	8.0	31.3	150
	13	6.0	2.7	3.3	4.0	5.3	8.0	5.3	8.0	12.7	8.0	36.7	150
	16	4.7	3.3	3.3	5.3	7.3	5.3	2.7	9.3	14.0	6.0	38.7	150
	19	7.3	2.0	4.0	4.0	4.0	4.0	3.3	11.3	10.7	13.3	36.0	150
	22	16.0	3.3	6.7	4.0	6.7	7.3	6.7	6.0	9.3	5.3	28.7	150
TOTALS		10.9	3.3	5.7	5.8	6.3	6.2	3.6	7.7	11.8	6.9	31.9	6.4 1200

5704 SKY COVER JAN 68

13769  
STATION

**STATION NAME**  
**OCEANA, VIRGINIA**

73-77

PERIOD

**JUL**  
**MONTH**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JUL	01	24.5	2.6	11.0	4.5	9.7	3.9	6.5	3.2	4.5	1.9	27.7	4.9	155
	04	20.6	5.2	7.7	5.8	7.7	5.2	6.5	7.7	1.9	3.2	28.4	5.2	155
	07	15.5	5.2	7.1	3.2	8.4	5.8	5.2	7.1	9.7	7.1	25.8	5.7	155
	10	13.5	3.9	6.5	3.2	7.1	5.8	3.2	6.5	8.4	11.0	29.0	6.1	155
	13	5.2	7.1	5.8	5.8	5.8	7.1	4.5	11.6	9.0	8.4	29.7	6.5	155
	16	9.0	9.0	5.2	5.2	11.0	5.2	3.2	5.8	8.4	10.3	27.7	6.0	155
	19	11.0	4.5	6.5	11.0	4.5	5.8	3.2	6.5	12.3	7.1	27.7	6.0	155
	22	16.1	5.8	7.1	15.5	5.2	6.5	1.9	7.1	3.2	5.2	26.5	5.2	155
TOTALS		164	5.4	7.1	7.0	7.4	5.7	6.3	6.9	7.2	6.8	27.8	5.7	1240



**AUG**  
**MONTH**

**DATA**

11

NAVWEASERVCOM

**SEP**  
**MONTH**

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	01	30.7	2.7	10.7	6.0	4.7	4.0	4.0	3.3	6.7	4.7	22.7	4.5	150
	04	26.7	4.0	8.0	4.7	8.0	2.0	4.7	6.0	7.3	6.0	22.7	4.9	150
	07	10.7	4.0	8.7	6.7	4.0	7.3	3.3	7.3	10.0	8.7	29.3	6.2	150
	10	11.3	8.0	4.0	4.0	3.3	8.7	4.7	12.7	10.7	10.7	22.0	6.0	150
	13	8.0	4.0	7.3	6.0	6.0	6.7	4.7	12.0	12.0	9.3	24.0	6.3	150
	16	9.3	6.0	8.0	5.3	6.0	7.3	5.3	9.3	9.3	10.7	23.3	6.0	150
	19	14.7	5.3	6.7	6.7	8.7	3.3	5.3	4.0	11.3	9.3	24.7	5.7	150
	22	28.0	1.3	7.3	10.0	6.7	2.7	5.3	4.7	6.0	3.3	24.7	4.6	150
TOTALS		17.4	4.4	7.6	6.2	5.9	5.3	4.7	7.4	9.2	7.8	24.2	5.6	1200

## SKY COVER

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

PERIOD

OCT  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
OCT	01	32.3	5.2	7.7	5.8	3.9	3.9	2.6	5.2	3.9	5.2	24.5	155
	04	30.3	9.0	7.7	5.2	5.2	5.8	1.9	3.9	1.9	2.6	26.5	155
	07	20.6	6.5	9.7	3.2	5.2	1.3	1.3	7.7	8.4	7.7	28.4	155
	10	18.7	9.7	3.2	7.7	4.5	1.3	5.2	5.2	7.7	7.7	29.0	155
	13	14.8	6.5	6.5	5.2	2.6	4.5	3.9	6.5	8.4	7.1	34.2	155
	16	16.8	4.5	6.5	6.5	3.9	5.2	4.5	5.8	9.0	5.8	31.6	155
	19	16.8	8.4	7.1	6.5	6.5	3.9	2.6	7.7	4.5	5.2	31.0	155
	22	29.7	5.2	5.2	5.2	7.1	4.5	2.6	5.2	4.5	1.3	29.7	155
TOTALS		22.5	6.9	6.7	5.7	4.9	3.8	3.1	5.9	6.0	5.3	29.4	1240



73-77

PERIOD

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
NOV	01	35.3	4.0	7.3	7.3	3.3	4.0	2.7	1.3	4.0	3.3	27.3	4.3	150
	04	38.0	3.0	5.3	6.0	4.0	3.3	2.0	4.7	3.3	2.7	22.7	3.9	150
	07	18.7	10.0	8.7	7.3	6.7	4.0	3.3	7.3	7.3	5.3	21.3	4.9	150
	10	21.3	5.3	7.3	7.3	5.3	3.3	5.3	2.7	8.7	6.7	26.7	5.3	150
	13	17.3	10.0	4.7	7.3	3.3	2.7	3.3	6.7	7.3	8.7	28.7	5.6	150
	16	17.3	5.3	6.7	7.3	4.0	2.0	2.0	8.7	6.7	8.7	31.3	5.8	150
	19	23.3	6.7	7.3	4.7	6.0	2.7	6.7	2.7	6.0	6.7	27.3	5.1	150
	22	29.3	6.7	4.7	4.7	8.0	1.3	2.7	2.0	6.0	3.3	31.3	4.9	150
TOTALS		25.1	7.0	6.5	6.5	5.1	2.9	3.5	4.5	6.2	5.7	27.1	5.0	1200

## SKY COVER

13769 OCEANA, VIRGINIA STATION NAME 73-77 PERIOD DEC MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10	
DEC	01	31.6	5.2	5.2	7.1	2.6	.6	1.3	2.6	3.2	3.9	36.8	155
	04	31.6	5.2	6.5	3.2	2.6	1.9	1.9	1.3	3.9	2.6	39.4	155
	07	12.3	10.3	8.4	7.1	5.2	2.6	2.6	5.2	6.5	4.5	35.5	155
	10	14.2	5.2	4.5	7.7	2.6	1.9	1.3	7.1	7.7	7.7	40.0	155
	13	17.4	7.7	3.2	3.9	3.9	1.3	4.5	1.9	3.9	7.7	44.5	155
	16	14.8	7.7	7.1	3.9	4.5	1.3	2.6	2.6	5.8	7.7	41.9	155
	19	19.4	5.2	8.4	9.0	2.6		2.6	4.5	3.2	5.2	40.0	155
	22	27.7	3.2	9.7	1.3	1.3	1.3	3.9	3.9	5.8	2.6	39.4	155
TOTALS		21.1	6.2	6.6	5.4	3.2	1.4	2.6	3.6	5.0	5.2	39.7	1240

## SKY COVER

13769 STATION OCEANA, VIRGINIA PERIOD 73-77 ALL MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
JAN	ALL	22.1	4.8	4.4	4.8	3.1	2.6	3.4	3.7	4.9	5.0	41.4	6.0	1240
FEB		28.0	4.2	5.2	5.3	1.9	2.6	2.2	3.4	5.4	6.4	35.3	5.4	1128
MAR		19.7	3.7	4.4	4.4	3.2	2.3	2.1	3.6	6.5	4.4	45.7	6.4	1240
APR		25.3	6.5	6.6	6.7	3.8	3.5	3.5	3.6	7.4	4.9	28.3	5.1	1200
MAY		15.7	3.3	5.2	6.3	5.0	4.5	3.6	5.0	9.1	5.3	37.0	6.2	1240
JUN		10.9	3.3	5.7	5.8	6.3	6.2	3.6	7.7	11.8	6.9	31.9	6.4	1200
JUL		14.4	5.4	7.1	7.0	7.4	5.7	4.3	6.9	7.2	6.8	27.8	5.7	1240
AUG		11.4	6.1	7.4	9.2	6.2	6.2	5.3	7.9	10.3	7.8	22.4	5.7	1240
SEP		17.4	4.4	7.6	6.2	5.9	5.3	4.7	7.4	9.2	7.8	24.2	5.6	1200
OCT		22.5	6.9	6.7	5.7	4.9	3.8	3.1	5.9	6.0	5.3	29.4	5.3	1240
NOV		25.1	7.0	6.5	6.5	5.1	2.9	3.5	4.5	6.2	5.7	27.1	5.0	1200
DEC		21.1	6.2	6.6	5.4	3.2	1.4	2.6	3.6	5.0	5.2	39.7	5.8	1240
TOTALS		19.5	5.2	6.1	6.1	4.7	3.9	3.5	5.3	7.4	6.0	32.5	5.7	14608





## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

- b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.
- c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine method is for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:
  - a. Dry-bulb temperature
  - b. Wet-bulb temperature
  - c. Dew-point temperature
5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.
  - a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
  - b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.
6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).



13769  
STATION

**OCEANA, VIRGINIA**

45-49, 51-77

YEARS

## DAILY TEMPERATURES

MAXIMUM

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
100						3	2	1					1
95				.1	.1	3.5	4.9	3.2	.1	.1			1.0
90				.6	2.4	16.3	23.5	21.2	7.0	.2			6.2
85			.1	6.5	13.6	38.5	53.8	49.8	22.9	2.6			15.9
80		.4	1.1	15.7	31.4	61.2	62.3	77.9	48.7	9.8	1.8		28.0
75	.8	2.3	4.1	28.2	47.4	81.9	98.3	96.0	75.0	27.6	9.1	1.0	40.0
70	4.7	6.1	9.1	40.2	66.0	92.7	99.7	100.0	93.4	50.8	21.0	5.0	50.0
65	10.9	12.6	16.6	35.4	83.8	98.4	100.0		99.1	75.2	36.4	14.0	59.7
60	21.9	24.6	26.3	55.4	95.8	100.0			100.0	91.5	54.7	27.5	69.2
55	32.3	38.5	39.7	70.6	99.4					97.7	72.2	39.9	77.2
50	43.8	51.1	54.9	88.5	99.4					99.0	87.6	58.2	84.1
45	59.7	66.8	71.1	96.5	100.0					99.9	96.6	74.9	90.5
40	76.2	83.9	86.6	99.4						100.0	99.3	87.6	95.4
35	88.6	93.9	96.0	100.0							100.0	94.2	98.0
30	96.1	98.1	98.7									99.2	99.5
25	99.3	99.7	100.0									100.0	99.9
20	99.9	100.0											100.0
15	100.0												100.0
MEAN	48.6	50.8	57.3	67.1	74.0	81.6	85.2	84.4	79.3	69.7	60.9	52.1	67.6
S. D.	11.827	11.391	11.717	10.820	8.835	7.798	5.772	5.742	6.700	7.715	9.393	10.628	15.902
TOTAL OBS.	874	793	879	855	877	878	883	877	860	896	854	902	10428

## DAILY TEMPERATURES

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

45-49, 51-77

YEARS

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
60						.1	.5						.0
75						4.2	11.4	9.2	2.9				2.3
70						24.3	60.5	56.2	25.0	1.3	.1		14.4
65						58.9	89.0	85.4	55.6	10.2	.7		26.9
60						85.3	98.8	97.6	80.9	31.1	4.9	.8	37.9
55						96.2	100.0	99.5	93.0	50.6	15.5	3.1	46.4
50						99.3		100.0	99.1	69.3	28.0	8.2	55.0
45						100.0			100.0	85.9	43.7	18.6	63.4
40										94.9	65.9	33.8	73.7
35										98.2	85.0	50.9	82.8
30										99.8	96.0	71.1	90.9
25										100.0	99.4	88.5	96.1
20											100.0	96.6	98.7
15												99.8	99.7
10												100.0	100.0
5													100.0
0													100.0
MEAN	32.5	33.8	40.3	48.4	57.0	65.4	70.0	69.4	64.7	54.0	43.9	35.5	51.2
S. D.	9.210	8.842	8.422	7.862	6.935	5.735	4.137	4.442	6.000	8.467	9.004	9.533	15.490
TOTAL OBS.	874	793	879	854	877	878	883	877	860	896	834	902	10427

NAVWEASERVCOM

5721 Daily Temperatures Jan 1969

20

## DAILY TEMPERATURES

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

45-49, 51-77

YEARS

MEAN

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

107791

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
90						.5	.1						.0
85						3.0	5.9	2.4	.2				1.1
80				.2	2.1	19.6	38.7	32.7	10.7	.1			8.8
75			.7	3.3	11.9	47.2	74.9	72.7	35.8	3.3	.1		21.0
70		.4	3.0	11.9	33.0	73.2	97.5	94.1	68.3	15.4	2.6	.1	33.5
65	.7	1.6	7.3	24.9	56.0	93.2	99.9	99.7	89.4	39.7	9.1	2.0	43.9
60	3.9	4.9	15.0	39.7	77.7	98.9	100.0	100.0	98.7	65.6	23.5	4.9	53.1
55	9.4	10.6	26.7	60.5	94.1	100.0			100.0	85.8	39.7	14.7	62.2
50	21.5	23.3	42.8	82.9	99.3					94.9	61.1	28.9	71.5
45	35.1	39.7	65.6	95.8	100.0					98.7	81.7	45.9	80.4
40	51.5	59.8	85.0	99.5						99.8	95.0	66.0	88.2
35	72.6	81.7	96.2	100.0						100.0	99.1	84.5	94.6
30	87.2	92.2	99.0								99.9	93.6	97.7
25	95.5	98.1	100.0								100.0	99.0	99.4
20	99.4	99.7										100.0	99.9
15	99.9	99.9											100.0
10	100.0	100.0											100.0
MEAN	40.8	42.5	49.0	58.0	65.8	73.8	77.8	77.1	72.3	62.1	52.6	44.0	59.7
S. D.	9.959	9.511	9.494	8.760	7.225	6.252	4.439	4.542	5.726	7.193	8.651	9.488	15.347
TOTAL OBS.	874	793	879	854	877	878	883	877	860	896	854	902	10427

NAVWEASERVCOM

5721 Daily Temperature Jan 1969



# DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

UCEANA, VIRGINIA

1946-1949 1952-1977

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	43.9	6.6	51.9	11.1	74	23.3	1952	1952	35.9	2.2	17	-8.3	1977
2	41.1	5.1	48.9	9.4	72	22.2	1966	1966	33.3	0.7	21	-6.1	1977
3	42.2	5.7	50.5	10.3	70	21.1	1966	1966	34.0	1.1	19	-7.2	1977
4	41.5	5.3	48.5	9.2	66	18.9	1962	1962	34.5	1.4	22	-5.6	1970
5	39.2	4.0	46.7	8.2	69	20.6	1949	1949	31.6	-0.2	17	-8.3	1959
6	40.6	4.8	48.1	8.9	72	22.2	1946	1946	33.1	0.6	14	-10.0	1959
7	40.1	4.5	47.7	8.7	62	16.7	1967	1967	32.4	0.2	21	-6.1	1959
8	37.6	3.1	44.8	7.1	65	18.3	1965	1965	30.4	-0.9	12	-11.1	1970
9	39.8	4.3	47.3	8.5	71	21.7	1965	1965	32.4	0.2	10	-12.2	1970
10	40.7	4.8	49.7	9.8	70	21.1	1957	1957	31.6	-0.2	10	-12.2	1970
11	39.1	3.9	46.0	7.8	75	23.9	1974	1974	32.1	0.1	16	-8.9	1970
12	36.7	2.6	43.8	6.6	68	20.0	1963	1963	29.7	-1.3	14	-10.0	1977
13	39.9	4.4	49.4	9.7	71	21.7	1960	1960	30.5	-0.8	14	-10.0	1962
14	40.4	4.7	48.6	9.2	70	21.1	1952	1952	32.2	0.1	9	-12.8	1962
15	41.2	5.1	48.5	9.2	71	21.7	1952	1952	33.9	1.1	20	-6.7	1964*
16	39.0	3.9	47.8	8.8	75	23.9	1953	1953	30.2	-1.0	7	-13.9	1977
17	37.3	2.9	45.6	7.6	74	23.3	1949	1949	28.9	-1.7	2	-16.7	1977
18	38.2	3.4	46.3	7.9	66	18.9	1969*	1969*	30.1	-1.1	11	-11.7	1977
19	40.2	4.6	48.4	9.1	72	22.2	1949	1949	32.0	0.0	11	-11.7	1977
20	40.9	4.9	49.8	9.9	72	22.2	1947	1947	32.0	0.0	13	-10.6	1977
21	41.0	5.0	49.1	9.5	71	21.7	1959	1959	33.0	0.6	13	-10.6	1970
22	41.3	5.2	49.3	9.6	70	21.1	1959*	1959*	33.4	0.8	14	-10.0	1970
23	42.2	5.7	52.1	11.2	75	23.9	1974	1974	32.3	0.2	16	-8.9	1970
24	41.6	5.3	49.6	9.8	74	23.3	1949	1949	33.7	0.9	18	-7.8	1963
25	42.7	5.9	50.0	10.0	73	22.8	1967	1967	35.4	1.9	16	-8.9	1963
26	44.1	6.7	52.5	11.4	71	21.7	1967*	1967*	35.7	2.1	15	-9.4	1961
27	44.1	6.7	52.5	11.4	76	24.4	1952	1952	35.8	2.1	15	-9.4	1961
28	40.9	4.9	49.6	9.8	73	22.8	1974	1974	32.3	0.2	18	-7.8	1963
29	40.4	4.7	49.1	9.5	76	24.4	1957	1957	31.7	-0.2	14	-10.0	1977
30	41.4	5.2	49.7	9.8	75	23.9	1947	1947	33.2	0.7	13	-10.6	1966
31	37.8	3.2	45.7	7.6	65	18.3	1974*	1974*	30.0	-1.1	12	-11.1	1966
Monthly	40.6	4.8	48.6	9.2	76	24.4	1957*	1957*	32.5	0.3	2	-16.7	1977

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

OCEANA, VIRGINIA

1946-1949 1952-1977

FEBRUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	40.4	4.7	48.5	9.2	69	20.6	32.4	0.2	10	-12.2	1965
2	40.3	4.6	47.4	8.6	69	20.6	33.2	0.7	15	-9.4	1961
3	39.7	4.3	48.5	9.2	65	18.3	30.9	-0.6	19	-7.2	1976
4	40.8	4.9	48.3	9.1	70	21.1	33.4	0.8	17	-8.3	1970
5	40.0	4.4	48.1	8.9	70	21.1	31.8	-0.1	13	-10.6	1947
6	42.3	5.7	51.7	10.9	64	17.8	33.0	0.6	18	-7.8	1947
7	41.9	5.5	49.4	9.7	63	17.2	34.5	1.4	19	-7.2	1977
8	39.1	3.9	47.3	8.5	68	20.0	30.9	-0.6	20	-6.7	1977
9	39.5	4.2	47.2	8.4	68	20.0	31.7	-0.2	14	-10.0	1977
10	40.9	4.9	49.8	9.9	74	23.3	32.1	0.1	19	-7.2	1958
11	43.1	6.2	53.1	11.7	71	21.7	33.0	0.6	18	-7.8	1962
12	40.1	4.5	48.5	9.2	77	25.0	31.7	-0.2	18	-7.8	1973
13	40.8	4.9	48.7	9.3	67	19.4	32.9	0.5	14	-10.0	1973
14	42.8	6.0	52.7	11.5	76	24.4	33.0	0.6	16	-8.9	1955
15	44.5	6.9	53.3	11.8	80	26.7	35.6	2.0	25	-3.9	1963*
16	44.0	6.7	52.3	11.3	77	25.0	35.7	2.1	19	-7.2	1963
17	41.8	5.4	49.4	9.7	79	26.1	34.1	1.2	7	-13.9	1958
18	43.0	6.1	51.9	11.1	79	26.1	34.0	1.1	12	-11.1	1958
19	44.3	6.8	53.7	12.1	77	25.0	34.9	1.6	16	-8.9	1958
20	41.5	5.3	49.2	9.6	67	19.4	33.8	1.0	21	-6.1	1959
21	40.5	4.7	48.6	9.2	77	25.0	32.4	0.2	15	-9.4	1947
22	42.5	5.8	51.4	10.8	70	21.1	33.6	0.9	17	-8.3	1963
23	42.9	6.1	51.0	10.6	77	25.0	34.8	1.6	14	-10.0	1963
24	44.0	6.7	53.1	11.7	76	24.4	34.8	1.6	15	-9.4	1947
25	45.3	7.4	54.2	12.3	75	23.9	36.4	2.4	14	-10.0	1967
26	45.5	7.5	53.8	12.1	79	26.1	37.2	2.9	17	-8.3	1967
27	44.6	7.0	53.1	11.7	81	27.2	36.2	2.3	16	-8.9	1967
28	47.0	8.3	57.3	14.1	80	26.7	36.7	2.6	23	-5.0	1947
29	46.9	8.3	54.0	12.2	73	22.8	39.7	4.3	30	-1.1	1964
30											
31											
Monthly	42.3	5.7	50.8	10.4	81	27.2	33.8	1.0	7	-13.9	1958

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

OCEANA, VIRGINIA

1945-1949 1952-1977

MARCH

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		EXTREME		DATE		AVERAGE		MINIMUM TEMP		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	°F	°C		
1	45.2	7.3	53.0	11.7	79	26.1	25.0	1976	37.4	3.0	23	-5.0	1967					
2	46.1	7.8	54.6	12.6	77	25.0	1974	37.6	3.1	21	-6.1	1967						
3	48.0	8.9	57.0	13.9	78	25.6	1974	39.0	3.9	26	-3.3	1975						
4	47.6	8.7	55.9	13.3	82	27.8	1974	39.3	4.1	17	-8.3	1947						
5	49.4	9.7	58.1	14.5	83	28.3	1976*	40.6	4.8	21	-6.1	1960						
6	48.7	9.3	58.1	14.5	82	27.8	1967	39.4	4.1	23	-5.0	1960						
7	47.0	8.3	55.6	13.1	85	29.4	1974	38.5	3.6	23	-5.0	1960						
8	45.7	7.6	54.2	12.3	77	25.0	1956	37.3	2.9	24	-4.4	1968*						
9	44.9	7.2	52.3	11.3	80	26.7	1964	37.5	3.1	24	-4.4	1975						
10	45.8	7.7	54.0	12.2	79	26.1	1964	37.6	3.1	24	-4.4	1960						
11	46.9	8.3	55.5	13.1	78	25.6	1967	38.4	3.6	22	-5.6	1960						
12	49.5	9.7	58.5	14.7	80	26.7	1973	40.6	4.8	24	-4.4	1960						
13	49.9	9.9	58.2	14.6	78	25.6	1963	41.7	5.4	25	-3.9	1960						
14	49.8	9.9	59.0	15.0	82	27.8	1973	40.6	4.8	28	-2.2	1960						
15	49.0	9.4	57.5	14.2	84	28.9	1973	40.5	4.7	27	-2.8	1974						
16	50.3	10.2	59.4	15.2	85	29.4	1945	41.2	5.1	26	-3.3	1969*						
17	47.7	8.7	55.2	12.9	90	32.2	1945	40.2	4.6	26	-3.3	1970						
18	46.4	8.0	54.3	12.4	73	22.8	1977	38.6	3.7	23	-3.9	1976						
19	48.9	9.4	57.3	14.1	87	30.6	1945	40.6	4.8	26	-3.3	1967						
20	48.1	8.9	55.1	12.8	84	28.9	1945	41.1	5.1	26	-3.3	1967						
21	50.0	10.0	58.2	14.6	85	29.4	1968*	41.8	5.4	28	-2.2	1965						
22	50.7	10.4	59.5	15.3	88	31.1	1948	41.8	5.4	30	-1.1	1960*						
23	49.5	9.7	58.3	14.6	82	27.8	1966	40.7	4.8	30	-1.1	1967*						
24	50.8	10.4	60.9	16.1	81	27.2	1975	40.8	4.9	32	0.0	1971						
25	49.3	9.6	57.7	14.3	85	29.4	1954	41.0	5.0	29	-1.7	1974						
26	50.6	10.3	59.4	15.2	76	24.4	1953*	41.8	5.4	30	-1.1	1960						
27	48.4	9.1	57.3	14.1	80	26.7	1945	39.4	4.1	24	-4.4	1955						
28	50.1	10.1	58.9	14.9	84	28.9	1945	41.3	5.2	29	-1.7	1955						
29	53.1	11.7	62.3	16.8	86	30.0	1945	43.9	6.6	33	0.6	1966*						
30	52.9	11.6	61.0	16.1	84	28.9	1977	44.8	7.1	28	-2.2	1964						
31	51.2	10.7	59.0	15.0	85	29.4	1977	43.4	6.3	28	-2.2	1964						
Monthly	48.8	9.3	57.3	14.1	90	32.2	1945	40.3	4.6	17	-8.3	1947						

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13769

OCEANA, VIRGINIA

STATION

STATION NAME

1945-1949 1952-1977

YEARS

APRIL

MONTH

DAY	MEAN TEMP		AVERAGE			MAXIMUM TEMP			AVERAGE			MINIMUM TEMP			
	AVERAGE		EXTREME			EXTREME			EXTREME			EXTREME			
	° F	° C	° F	° C	° C	° F	° C	° C	° F	° C	° F	° C	° C	° F	° C
1	53.5	11.9	63.3	17.4	84	28.9	1966	43.7	6.5	30	-1.1	1964			
2	57.7	14.3	68.3	20.2	88	31.1	1967	47.0	8.3	28	-2.2	1964			
3	56.1	13.4	65.8	18.8	88	31.1	1967*	46.4	8.0	34	1.1	1961			
4	55.2	12.9	64.2	17.9	85	29.4	1974	46.1	7.8	30	-1.1	1965			
5	54.0	12.2	63.7	17.6	80	26.7	1969	44.3	6.8	31	-0.6	1964			
6	54.3	12.4	62.7	17.1	85	29.4	1967	45.8	7.7	33	0.6	1975			
7	54.2	12.3	63.1	17.3	84	28.9	1967	45.2	7.3	35	1.7	1977*			
8	54.7	12.6	63.7	17.6	87	30.6	1959*	45.7	7.6	34	1.1	1972			
9	54.0	12.2	63.0	17.2	86	30.0	1959	44.9	7.2	35	1.7	1977*			
10	54.0	12.2	63.0	17.2	85	29.4	1959	45.0	7.2	31	-0.6	1977			
11	54.2	12.3	63.2	17.3	86	30.0	1947	45.2	7.3	37	2.8	1974*			
12	55.6	13.1	64.4	18.0	87	30.6	1948	46.9	8.3	30	-1.1	1973			
13	54.9	12.7	64.0	17.8	84	28.9	1948	45.7	7.6	33	0.6	1975*			
14	57.2	14.0	66.4	19.1	86	30.0	1960*	48.0	8.9	33	0.6	1957			
15	57.2	14.0	66.2	19.0	86	30.0	1960	48.1	8.9	32	0.0	1973			
16	57.4	14.1	66.8	19.3	89	31.7	1976	48.0	8.9	35	1.7	1957			
17	57.8	14.3	67.5	19.7	87	30.6	1976	48.1	8.9	36	3.3	1962*			
18	60.8	16.0	71.4	21.9	86	30.0	1964	50.2	10.1	38	3.3	1962			
19	61.3	16.3	71.7	22.1	88	31.1	1963	50.9	10.5	38	3.3	1956			
20	59.5	15.3	69.7	20.9	88	31.1	1952	49.3	9.6	37	2.8	1961*			
21	60.2	15.7	70.8	21.6	94	34.4	1957	49.6	9.8	35	1.7	1961*			
22	62.0	16.7	71.3	21.8	92	33.3	1952	52.7	11.5	39	3.9	1953			
23	63.3	17.4	73.4	23.0	90	32.2	1960	53.1	11.7	42	5.6	1971*			
24	62.8	17.1	71.7	22.1	90	32.2	1955	53.9	12.2	41	5.0	1956			
25	61.9	16.6	70.7	21.5	90	32.2	1960	53.0	11.7	40	4.4	1956			
26	60.6	15.9	70.1	21.2	95	35.0	1960	51.7	10.9	41	5.0	1967			
27	59.9	15.5	68.4	20.2	87	30.6	1957*	51.5	10.8	42	5.6	1972			
28	58.8	14.9	67.2	19.6	88	31.1	1957	50.5	10.3	38	3.3	1947			
29	58.5	14.7	66.4	19.1	89	31.7	1974	50.6	10.3	38	3.3	1947			
30	60.6	15.9	69.8	21.0	86	30.0	1974	51.3	10.7	39	3.9	1977			
31															
Monthly	57.7	14.3	67.1	19.5	95	35.0	1960	48.4	9.1	28	-2.2	1964			

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

# DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

UCEANA, VIRGINIA

1945-1949 1952-1977

44V

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		MINIMUM TEMP		DATE
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	62.1	16.7	70.7	21.5	87	30.6	53.5	11.9	43	6.1	1971
2	62.1	16.7	70.9	21.6	88	31.1	53.2	11.8	42	5.6	1969
3	62.4	16.9	71.9	22.2	90	32.2	52.9	11.6	40	4.4	1963
4	61.2	16.2	69.7	20.9	86	30.0	52.7	11.5	42	5.6	1971
5	61.0	16.1	69.6	20.9	88	31.1	52.4	11.3	41	5.0	1966
6	62.1	16.7	71.7	22.1	86	30.0	52.4	11.3	43	6.1	1973*
7	63.1	17.3	72.2	22.3	87	30.6	53.9	12.2	42	5.6	1964
8	64.0	17.8	73.9	23.3	89	31.7	54.1	12.3	41	5.0	1956
9	62.9	17.2	72.0	22.2	92	33.3	53.9	12.2	35	1.7	1956
10	64.8	18.2	74.2	23.4	93	33.9	55.4	13.0	42	5.6	1966
11	65.3	18.5	74.6	23.7	88	31.1	55.9	13.3	38	3.3	1966
12	65.6	18.7	74.7	23.7	88	31.1	56.5	13.6	46	7.8	1963*
13	65.5	18.6	74.1	23.4	91	32.8	56.8	13.8	42	5.6	1963
14	65.9	18.8	74.0	23.3	95	35.0	57.7	14.3	47	8.3	1952
15	64.9	18.3	73.1	22.8	90	32.2	56.6	13.7	43	6.1	1965
16	65.8	18.8	74.8	23.8	92	33.3	56.9	13.8	46	7.8	1955
17	66.6	19.2	75.6	24.2	93	33.9	57.6	14.2	48	8.9	1967
18	66.8	19.3	75.8	24.3	88	31.1	57.6	14.3	44	6.7	1955
19	67.7	19.8	76.3	24.6	88	31.1	59.1	15.1	47	8.3	1976
20	67.6	19.8	75.7	24.3	88	31.1	59.5	15.3	49	9.4	1956
21	66.6	19.2	74.5	23.6	87	30.6	58.7	14.8	44	6.7	1956
22	67.1	19.5	75.6	24.2	87	30.6	58.5	14.7	50	10.0	1967*
23	68.8	20.4	76.7	24.8	90	32.2	61.0	16.1	50	10.0	1971*
24	67.6	19.8	75.2	24.0	90	32.2	59.9	15.5	47	8.3	1963
25	67.1	19.5	74.5	23.6	86	30.0	59.6	15.3	45	7.2	1956
26	67.4	19.7	74.7	23.7	94	34.4	60.2	15.7	45	7.2	1967
27	66.9	19.4	74.2	23.4	90	32.2	59.6	15.3	46	7.8	1961
28	67.3	19.6	75.6	24.2	91	32.8	59.1	15.1	44	6.7	1961
29	69.1	20.6	77.2	25.1	91	32.8	61.0	16.1	51	10.6	1956
30	68.1	20.1	75.3	24.1	92	33.3	60.9	16.1	51	10.6	1956
31	68.3	20.2	75.5	24.2	91	32.8	61.1	16.2	50	10.0	1967
Monthly	65.5	18.6	74.0	23.3	95	35.0	57.0	13.9	35	1.7	1956

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1977

STATION 13760 OCEANA, VIRGINIA 1945-1949 1952-1977 MONTH

DAY	MEAN TEMP		AVERAGE		MAXIMUM TEMP		AVERAGE		EXTREME		DATE		MINIMUM TEMP		EXTREME		DATE	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C			° F	° C	° F	° C		
1	69.0	20.6	77.0	25.0	89	31.7	61.0	16.1	48	8.9	1976		61.0	16.1	48	8.9	1967	
2	70.4	21.3	79.2	26.2	92	33.3	61.6	16.4	45	7.2	1961		61.6	16.4	45	7.2	1967	
3	68.6	20.3	76.6	24.8	92	33.3	60.6	15.9	48	8.9	1954		60.6	15.9	48	8.9	1967	
4	68.4	20.2	76.0	24.4	92	33.3	60.8	16.0	52	11.1	1973		60.8	16.0	52	11.1	1965	
5	69.8	21.0	77.9	25.5	93	33.9	61.8	16.6	46	7.8	1975		61.8	16.6	46	7.8	1965	
6	71.5	21.9	80.8	27.1	93	33.9	62.2	16.8	47	8.3	1952		62.2	16.8	47	8.3	1945	
7	72.3	22.4	80.7	27.1	95	35.0	63.8	17.7	50	10.0	1971*		63.8	17.7	50	10.0	1945	
8	71.2	21.8	78.6	25.9	91	32.8	63.8	17.7	53	11.7	1971*		63.8	17.7	53	11.7	1977	
9	72.3	22.4	80.1	26.7	97	36.1	64.5	18.1	52	11.1	1952		64.5	18.1	52	11.1	1949	
10	73.7	23.2	81.6	27.6	102	38.9	65.7	18.7	57	13.9	1964		65.7	18.7	57	13.9	1960	
11	73.2	22.9	82.0	27.8	98	36.7	64.3	17.9	54	12.2	1947		64.3	17.9	54	12.2	1960	
12	74.0	23.3	82.7	28.2	98	36.7	65.3	18.5	53	11.7	1947		65.3	18.5	53	11.7	1972	
13	74.8	23.8	83.6	28.7	95	35.0	66.0	18.9	52	11.1	1945		66.0	18.9	52	11.1	1963	
14	73.6	23.1	81.1	27.3	98	36.7	66.1	18.9	59	15.0	1945		66.1	18.9	59	15.0	1959*	
15	73.6	23.1	81.4	27.4	96	35.6	65.7	18.7	56	13.3	1964		65.7	18.7	56	13.3	1961*	
16	73.5	23.1	81.5	27.5	100	37.8	65.6	18.7	56	13.3	1945		65.6	18.7	56	13.3	1965	
17	72.7	22.6	80.0	26.7	100	37.8	65.5	18.6	52	11.1	1945		65.5	18.6	52	11.1	1961	
18	73.0	22.8	80.7	27.1	95	35.0	65.4	18.6	51	10.6	1945		65.4	18.6	51	10.6	1961	
19	73.1	22.8	80.6	27.0	95	35.0	65.5	18.6	51	10.6	1952		65.5	18.6	51	10.6	1961	
20	74.4	23.6	82.3	27.9	94	34.4	66.6	19.2	54	12.2	1964		66.6	19.2	54	12.2	1954	
21	75.0	23.9	83.6	28.7	97	36.1	66.4	19.1	57	13.9	1949		66.4	19.1	57	13.9	1966	
22	75.6	24.2	83.2	28.4	93	33.9	68.0	20.0	59	15.0	1949		68.0	20.0	59	15.0	1963	
23	75.9	24.4	83.9	28.8	93	33.9	67.9	19.9	55	12.8	1956		67.9	19.9	55	12.8	1963	
24	76.2	24.6	84.7	29.3	97	36.1	67.7	19.8	54	12.2	1960		67.7	19.8	54	12.2	1963	
25	76.8	24.9	85.0	29.4	102	38.9	68.6	20.3	59	15.0	1952		68.6	20.3	59	15.0	1963	
26	76.4	24.7	83.8	28.8	102	38.9	69.0	20.6	58	14.4	1952*		69.0	20.6	58	14.4	1945	
27	76.5	24.7	84.6	29.2	104	40.0	68.5	20.3	59	15.0	1949		68.5	20.3	59	15.0	1964	
28	75.8	24.3	83.3	28.5	96	35.6	68.3	20.2	60	15.6	1977		68.3	20.2	60	15.6	1974*	
29	76.3	24.6	84.6	29.2	98	36.7	68.1	20.1	57	13.9	1959		68.1	20.1	57	13.9	1970	
30	77.9	25.5	86.8	30.4	104	40.0	69.0	20.6	63	17.2	1945		69.0	20.6	63	17.2	1974*	
31																		
Monthly	73.5	23.1	81.6	27.6	104	40.0	65.4	18.6	45	7.2	1949*		65.4	18.6	45	7.2	1967	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

OCEANA, VIRGINIA

1945-1949 1952-1977

JULY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME			
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C		
1	78.1	25.6	86.3	30.2	99	37.2	1977	69.8	21.0	61	16.1	1965
2	77.8	25.4	86.4	30.2	97	36.1	1953	69.2	20.7	55	12.8	1965
3	78.1	25.6	86.9	30.5	103	39.4	1954	69.4	20.8	60	15.6	1962*
4	76.5	24.7	84.2	29.0	95	35.0	1966	68.8	20.4	59	15.0	1963
5	76.8	24.9	84.4	29.1	96	35.6	1957	69.2	20.7	59	15.0	1963
6	76.3	24.6	83.9	28.8	96	35.6	1948	68.7	20.4	59	15.0	1962
7	76.7	24.8	84.2	29.0	95	35.0	1977*	69.2	20.7	61	16.1	1963
8	76.4	24.7	83.9	28.8	93	33.9	1977	68.9	20.5	59	15.0	1972
9	76.8	24.9	84.4	29.1	92	33.3	1974*	69.2	20.7	60	15.6	1963
10	76.3	24.6	83.5	28.6	94	34.4	1973	69.1	20.6	60	15.6	1963
11	75.7	24.3	82.4	28.0	95	35.0	1966	68.9	20.5	60	15.6	1963*
12	75.6	24.2	82.2	27.9	92	33.3	1967	69.0	20.6	58	14.4	1945
13	76.8	24.9	84.6	29.2	97	36.1	1966	69.0	20.6	59	15.0	1963
14	78.7	25.9	86.0	30.0	97	36.1	1966	71.3	21.8	62	16.7	1955
15	78.6	25.9	85.8	29.9	96	35.6	1974	71.4	21.9	66	18.9	1976*
16	78.2	25.7	85.3	29.6	95	35.0	1953	71.0	21.7	62	16.7	1960
17	77.4	25.2	84.7	29.3	95	35.0	1955	70.0	21.1	61	16.1	1954
18	77.8	25.4	86.1	30.1	97	36.1	1977*	69.6	20.9	56	13.3	1954
19	79.3	26.3	87.6	30.9	97	36.1	1952	71.1	21.7	63	17.2	1957
20	79.0	26.1	86.4	30.2	96	35.6	1963	71.6	22.0	61	16.1	1976
21	78.7	25.9	86.9	30.5	99	37.2	1952	70.6	21.4	61	16.1	1974
22	77.7	25.4	85.3	29.6	99	37.2	1957*	70.0	21.1	59	15.0	1965
23	78.5	25.8	86.6	30.3	102	38.9	1952	70.4	21.3	60	15.6	1974
24	78.3	25.7	86.3	30.2	93	33.9	1976*	70.4	21.3	58	14.4	1977
25	77.4	25.2	84.5	29.2	92	33.3	1968*	70.2	21.2	63	17.2	1947
26	77.0	25.0	84.0	28.9	93	33.9	1945	70.0	21.1	63	17.2	1976
27	77.6	25.3	85.1	29.5	94	34.4	1952	70.2	21.2	62	16.7	1962
28	78.5	25.8	86.0	30.0	97	36.1	1952	70.9	21.6	58	14.4	1962
29	78.4	25.8	85.9	29.9	96	35.6	1952	70.9	21.6	63	17.2	1977*
30	78.1	25.6	85.2	29.6	96	35.6	1953	71.0	21.7	62	16.7	1956
31	78.1	25.6	86.0	30.0	95	35.0	1958*	70.1	21.2	60	15.6	1956
Monthly	77.6	25.3	85.2	29.6	103	39.4	1954	70.0	21.1	55	12.8	1965

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1978

13769 OCEANA, VIRGINIA 1945-1949 1952-1977 AUGUST  
STATION STATION NAME YEARS MONTH

DAY	MEAN TEMP		AVERAGE				MAXIMUM TEMP				AVERAGE				EXTREME				MINIMUM TEMP											
	AVERAGE		° F		° C		AVERAGE		° F		° C		AVERAGE		° F		° C		AVERAGE		° F		° C		AVERAGE		° F		° C	
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C		
1	78.4	25.8	85.7	29.8	92	33.3	1957*	71.0	21.7	63	17.2	1966																		
2	78.1	25.6	85.5	29.7	94	34.4	1953	70.8	21.6	64	17.8	1959																		
3	78.1	25.6	85.6	29.8	95	35.0	1975	70.6	21.4	60	15.6	1959																		
4	77.8	25.4	84.6	29.2	96	35.6	1975	71.0	21.7	62	16.7	1956																		
5	77.3	25.2	84.5	29.2	96	35.6	1953	70.1	21.2	58	14.4	1976																		
6	76.0	24.4	83.5	28.6	97	36.1	1977	68.6	20.3	59	15.0	1964*																		
7	76.6	24.8	84.1	28.9	99	37.2	1977	69.0	20.6	60	15.6	1957																		
8	77.4	25.2	85.0	29.4	94	34.4	1977*	69.7	20.9	60	15.6	1957																		
9	77.8	25.4	85.3	29.6	93	33.9	1972	70.2	21.2	64	17.8	1964																		
10	77.6	25.3	85.4	29.7	97	36.1	1977	69.7	20.9	62	16.7	1964*																		
11	76.5	24.7	83.4	28.6	93	33.9	1977	69.5	20.8	61	16.1	1968																		
12	76.6	24.8	84.4	29.1	97	36.1	1977	68.7	20.4	59	15.0	1974																		
13	76.7	24.8	84.3	29.1	95	35.0	1947	69.0	20.6	58	14.4	1954																		
14	77.7	25.4	85.8	29.9	97	36.1	1958	69.6	20.9	57	13.9	1964																		
15	77.7	25.4	85.4	29.7	95	35.0	1953	70.1	21.2	56	13.3	1964																		
16	76.7	24.8	84.0	28.9	94	34.4	1975*	69.4	20.8	59	15.0	1963*																		
17	76.8	24.9	84.1	28.9	94	34.4	1975	69.5	20.8	62	16.7	1972*																		
18	76.2	24.6	83.2	28.4	91	32.8	1969*	69.2	20.7	61	16.1	1977*																		
19	77.1	25.1	84.5	29.2	95	35.0	1966*	69.6	20.9	61	16.1	1977*																		
20	76.8	24.9	84.3	29.1	95	35.0	1955*	69.4	20.8	62	16.7	1964*																		
21	76.8	24.9	84.2	29.0	94	34.4	1962	69.5	20.8	60	15.6	1969																		
22	77.1	25.1	84.0	28.9	94	34.4	1959	70.2	21.2	60	15.6	1969																		
23	76.6	24.8	83.5	28.6	93	33.9	1966	69.7	20.9	60	15.6	1969*																		
24	75.8	24.3	82.6	28.1	93	33.9	1968	68.9	20.5	58	14.4	1952																		
25	75.4	24.1	83.1	28.4	95	35.0	1968	67.8	19.9	53	11.7	1952																		
26	76.1	24.5	84.0	28.9	96	35.6	1954*	68.2	20.1	58	14.4	1977																		
27	76.2	24.6	84.1	28.9	101	38.3	1948	68.4	20.2	56	13.3	1963																		
28	76.5	24.7	84.0	28.9	95	35.0	1973*	69.0	20.6	56	13.3	1963																		
29	76.2	24.6	84.4	29.1	95	35.0	1953	68.0	20.0	52	11.1	1965																		
30	76.6	24.8	85.1	29.5	96	35.6	1953	68.0	20.0	51	10.6	1965																		
31	77.2	25.1	85.0	29.4	95	35.0	1953	69.4	20.8	54	12.2	1965																		
Monthly	76.9	24.9	84.4	29.1	101	38.3	1948	69.4	20.8	51	10.6	1965																		

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

**DIRNA VOCEANMET-SMOS**



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

5725 DAILY AVERAGE/EXTREME TEMP MAR 1976

STATION 13769 OCEANA, VIRGINIA STATION NAME 1945-1949 1952-1977 YEARS MONTH OCTOBER

DAY	MEAN TEMP		AVERAGE			MAXIMUM TEMP			AVERAGE			MINIMUM TEMP			DATE
	° F	° C	° F	° C	° C	° F	° C	° C	° F	° C	° C	° F	° C	° C	
1	67.1	19.5	74.6	23.7	30.6	87	30.6	1954	59.6	15.3	42	5.6	1946		
2	66.5	19.2	74.3	23.5	30.6	87	30.6	1952	58.7	14.8	40	4.4	1946		
3	65.7	18.7	72.9	22.7	30.6	87	30.6	1968*	58.4	14.7	45	7.2	1974		
4	65.0	18.3	72.3	22.4	32.8	91	32.8	1954	57.7	14.3	40	4.4	1974		
5	64.6	18.1	73.0	22.8	31.1	88	31.1	1973*	56.2	13.4	37	2.8	1974		
6	64.1	17.8	73.0	22.8	35.0	95	35.0	1954	55.2	12.9	38	3.3	1965		
7	64.7	18.2	72.0	22.2	29.4	85	29.4	1959	57.4	14.1	45	7.2	1966		
8	65.0	18.3	72.1	22.3	28.9	84	28.9	1962	57.8	14.3	47	8.3	1966		
9	65.0	18.3	72.0	22.2	27.2	81	27.2	1959	57.9	14.4	43	6.1	1953		
10	63.8	17.7	70.7	21.5	29.4	85	29.4	1953	56.9	13.8	44	6.7	1974		
11	62.6	17.0	70.3	21.3	28.9	84	28.9	1962*	54.9	12.7	38	3.3	1964		
12	62.6	17.0	70.5	21.4	29.4	85	29.4	1962	54.6	12.6	36	2.2	1964		
13	62.2	16.8	70.4	21.3	31.1	88	31.1	1954	53.9	12.2	43	6.1	1964		
14	63.2	17.3	71.6	22.0	30.0	86	30.0	1975	54.9	12.7	43	6.1	1963*		
15	63.2	17.3	72.0	22.2	30.0	86	30.0	1975	54.3	12.4	39	3.9	1945		
16	63.8	17.7	72.8	22.7	29.4	85	29.4	1975	54.9	12.7	37	2.8	1945		
17	62.2	16.8	69.8	21.0	28.3	83	28.3	1972	54.5	12.5	38	3.3	1977		
18	61.1	16.2	69.5	20.8	28.3	83	28.3	1945	52.8	11.6	33	0.6	1977		
19	60.5	15.8	68.1	20.1	27.8	82	27.8	1966	52.9	11.6	42	5.6	1976*		
20	59.7	15.4	66.9	19.4	28.3	83	28.3	1947	52.4	11.3	34	1.1	1974		
21	58.4	14.7	65.4	18.6	27.2	81	27.2	1947	51.4	10.8	35	1.7	1974		
22	59.6	15.3	67.9	19.9	28.9	84	28.9	1947	51.3	10.7	33	0.6	1976*		
23	60.7	15.9	69.2	20.7	30.0	86	30.0	1947	52.1	11.2	32	0.0	1976		
24	60.6	15.9	67.9	19.9	26.1	79	26.1	1971	53.3	11.8	39	3.9	1969*		
25	59.3	15.2	67.2	19.6	24.4	76	24.4	1975*	51.4	10.8	36	2.2	1960		
26	57.9	14.4	65.2	18.4	26.1	79	26.1	1954	50.6	10.3	36	2.2	1962		
27	57.5	14.2	65.7	18.7	27.2	81	27.2	1954*	49.3	9.6	30	-1.1	1962		
28	57.8	14.3	65.8	18.8	26.7	80	26.7	1947	49.9	9.9	32	0.0	1976		
29	58.1	14.5	65.9	18.8	27.8	82	27.8	1946	50.2	10.1	29	-1.7	1976		
30	57.1	13.9	65.4	18.6	28.3	83	28.3	1946	48.7	9.3	29	-1.7	1965		
31	57.9	14.4	66.3	19.1	27.8	82	27.8	1961*	49.6	9.8	33	0.6	1966		
Monthly	61.9	16.6	69.7	20.9	35.0	95	35.0	1954	54.0	12.2	29	-1.7	1976*		

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

## DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

13769

UCEANA, VIRGINIA

1945-1949 1952-1977

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP				MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		AVERAGE		EXTREME		
	° F	° C	° F	° C	° F	° C	° F	° C	° F	° C	
1	59.4	15.2	67.5	19.7	83	28.3	1974*	51.4	10.8	32	0.0
2	60.0	15.6	68.5	20.3	81	27.2	1971*	51.5	10.8	33	0.6
3	60.1	15.6	69.0	20.6	82	27.8	1972	51.1	10.6	33	0.6
4	56.3	13.5	64.9	18.3	82	27.8	1974	47.8	8.8	32	0.0
5	56.2	13.4	63.6	17.6	80	26.7	1974	48.7	9.3	34	1.1
6	53.9	12.2	61.9	16.6	81	27.2	1959	46.0	7.8	32	0.0
7	53.1	11.7	62.2	16.8	79	26.1	1975	44.0	6.7	30	-1.1
8	52.4	11.3	61.1	16.2	79	26.1	1945	43.7	6.5	31	-0.6
9	53.1	11.7	61.3	16.3	79	26.1	1945	44.9	7.2	23	-5.0
10	52.9	11.6	60.7	15.9	78	25.6	1975*	45.1	7.3	34	1.1
11	51.2	10.7	59.3	15.2	75	23.9	1964	43.1	6.2	31	-0.6
12	52.9	11.6	61.8	16.6	75	23.9	1964	44.0	6.7	29	-1.7
13	52.6	11.4	61.1	16.2	81	27.2	1945	44.0	6.7	30	-1.1
14	52.8	11.6	61.8	16.6	79	26.1	1972	43.8	6.6	28	-2.2
15	52.3	11.3	61.2	16.2	75	23.9	1973*	43.3	6.3	32	0.0
16	54.4	12.4	64.0	17.8	83	28.3	1955	44.7	7.1	26	-3.3
17	54.0	12.2	63.2	17.3	76	24.4	1977	44.8	7.1	25	-3.9
18	52.5	11.4	61.6	16.4	76	24.4	1968*	43.4	6.3	29	-1.7
19	53.4	11.9	62.0	16.7	78	25.6	1964*	44.9	7.2	28	-2.2
20	50.4	10.2	58.1	14.5	73	22.8	1964	42.8	6.0	31	-0.6
21	51.6	10.9	60.6	15.9	74	23.3	1975	42.6	5.9	30	-1.1
22	49.9	9.9	58.2	14.6	73	22.8	1953	41.6	5.3	28	-2.2
23	47.7	8.7	56.0	13.3	74	23.3	1963	39.4	4.1	25	-3.9
24	49.5	9.7	57.9	14.4	76	24.4	1946	41.2	5.1	24	-4.4
25	48.6	9.2	56.7	13.7	77	25.0	1973	40.5	4.7	27	-2.8
26	47.8	8.8	56.8	13.8	68	20.0	1967*	38.7	3.7	28	-2.2
27	50.4	10.2	59.8	15.4	80	26.7	1973	41.0	5.0	22	-5.6
28	51.6	10.9	60.2	15.7	81	27.2	1973	42.9	6.1	27	-2.8
29	47.0	8.3	54.6	12.6	75	23.9	1960	39.4	4.1	23	-5.0
30	43.1	6.2	50.7	10.4	68	20.0	1975	35.6	2.0	24	-4.4
31											
Monthly	52.4	11.3	60.9	16.1	83	28.3	1974*	43.9	6.6	22	-5.6

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

# DAILY AVERAGE/EXTREME TEMPERATURES

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

STATION 13769 OCEANA, VIRGINIA 1945-1949 1951-1977 DECEMBER MONTH  
STATION NAME YEARS

DAY	MEAN TEMP		AVERAGE			MAXIMUM TEMP			AVERAGE			MINIMUM TEMP			DATE
	° F	° C	° F	° C	° C	° F	° C	° C	° F	° C	° C	° F	° C	° C	
1	42.4	5.8	49.8	9.9	25.0	77	25.0	1977	35.0	1.7	23	-5.0	1976*		
2	43.0	6.1	51.9	11.1	21.7	71	21.7	1970	34.2	1.2	22	-5.6	1976		
3	46.1	7.8	54.9	12.7	20.6	69	20.6	1970*	37.2	2.9	19	-7.2	1976		
4	47.2	8.4	55.6	13.1	22.8	73	22.8	1964	38.9	3.8	19	-7.2	1976		
5	49.0	9.4	58.4	14.7	21.1	70	21.1	1972*	39.6	4.2	27	-2.8	1976*		
6	47.4	8.6	56.6	13.7	23.3	74	23.3	1956*	38.2	3.4	24	-4.4	1974		
7	46.2	7.9	55.0	12.8	25.6	78	25.6	1956	37.4	3.0	23	-5.0	1954		
8	48.0	8.9	56.6	13.7	25.6	78	25.6	1951	39.3	4.1	20	-6.7	1954		
9	47.0	8.3	55.8	13.2	23.9	75	23.9	1951	38.2	3.4	17	-8.3	1976		
10	44.3	6.8	52.2	11.2	24.4	76	24.4	1966	36.4	2.4	22	-3.6	1960		
11	44.1	6.7	52.7	11.5	21.1	70	21.1	1971	35.5	1.9	18	-7.8	1977		
12	45.4	7.4	53.3	11.8	23.9	75	23.9	1964	37.4	3.0	15	-9.4	1977		
13	44.9	7.2	53.4	11.9	23.9	75	23.9	1956	36.4	2.4	10	-12.2	1958		
14	44.2	6.8	52.2	11.2	21.1	70	21.1	1956*	36.1	2.3	16	-8.9	1960		
15	42.3	5.7	49.6	9.8	21.7	71	21.7	1975	35.1	1.7	19	-7.2	1962*		
16	42.2	5.7	49.8	9.9	23.3	74	23.3	1971	34.6	1.4	13	-10.6	1958		
17	42.7	5.9	50.9	10.5	20.0	68	20.0	1946	34.6	1.4	18	-7.8	1958*		
18	42.0	5.6	51.3	10.7	22.2	72	22.2	1961	32.7	0.4	20	-6.7	1963		
19	41.3	5.2	49.7	9.8	20.6	69	20.6	1970	32.9	0.5	17	-8.3	1975		
20	43.4	6.3	51.1	10.6	18.9	66	18.9	1957	35.7	2.1	18	-7.8	1963		
21	42.5	5.8	49.4	9.7	20.0	68	20.0	1956*	35.6	2.0	17	-8.3	1963		
22	40.4	4.7	48.3	9.1	24.4	76	24.4	1967	32.4	0.2	15	-9.4	1976		
23	41.5	5.3	50.2	10.1	18.9	66	18.9	1956	32.8	0.4	16	-8.9	1960		
24	42.4	5.8	49.8	9.9	20.0	68	20.0	1957	35.0	1.7	17	-8.3	1976		
25	42.7	5.9	51.1	10.6	22.8	73	22.8	1964*	34.3	1.3	17	-8.3	1976		
26	42.4	5.8	51.1	10.6	21.1	70	21.1	1964	33.7	0.9	21	-6.1	1958		
27	41.2	5.1	49.6	9.8	20.6	69	20.6	1971	32.9	0.5	16	-8.9	1948		
28	41.8	5.4	49.6	9.8	21.7	71	21.7	1971	33.9	1.1	17	-8.3	1977		
29	42.0	5.6	50.2	10.1	21.1	70	21.1	1954	33.7	0.9	15	-9.4	1977		
30	43.2	6.2	51.9	11.1	21.1	70	21.1	1969	34.6	1.4	21	-6.1	1961		
31	43.7	6.5	51.6	10.9	21.1	70	21.1	1965	35.7	2.1	20	-6.7	1976*		
Monthly	43.8	6.6	52.1	11.2	25.6	78	25.6	1956*	35.5	1.9	10	-12.2	1958		

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



2

# EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13769 OCEANA, VIRGINIA 45-49, 51-77 YEARS

STATION NAME

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45			90	87	92	104	96	95	92	83	81		
46													
47													
48													
49													
51													
52	76	68	85	92	88	102	102	94	93	87	79	70	102
53	75	77	73	86	94	92	97	96	93	84	81	71	97
54	72	77	85	87	89	96	103	96	93	95	71	70	103
55	67	75	79	90	90	90	95	95	87	82	83	73	95
56	70	72	82	85	93	93	95	93	91	79	76	78	95
57	76	70	74	94	89	94	99	95	92	75	74	68	99
58	62	67	63	84	86	94	95	97	94	85	77	69	97
59	71	74	81	87	90	98	92	94	86	88	81	68	98
60	71	72	81	95	88	97	92	94	90	83	77	68	97
61	64	77	83	89	86	92	94	93	89	82	79	72	94
62	67	80	76	83	90	90	90	94	92	85	70	62	94
63	71	70	81	88	93	93	96	92	87	82	74	62	96
64	66	65	80	86	90	102	92	92	90	79	79		
65	71	77	76	84	90	91	92	94	93	79	73	70	94
66	72	67	82	88	88	92	97	95	93	85		76	
67	73	70	82	88	90	92	92	90	83	86	74	76	92
68	65	60	85	79	89	94	94	95	86	87	81	67	95
69	66	56	74	85	92	93	93	91		80	73	70	
70	75	67	69	85	87	92	93	93	92	84	72	72	93
71	63	70	74	77	61	95	91	91	85	80	83	74	95
72	68	71	74	87	79	87	93	93	91	83	82	70	93
73	67	63	84	85	91	95	94	95	93	88	81	71	95
74	75	70	85	89	93	93	96	93	89	83	83	69	96
75	74	77	81	84	86	93	91	96	93	86	79	72	96
MEAN													
S. D.													
TOTAL OBS.													

5723 Extreme Values Jan 1969







# EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13769 STATION OCEANA, VIRGINIA STATION NAME 45-49, 51-77 YEARS

## WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45			34		44	47	58	59	61	37	25		
46													
47													
48													
49													
51													
52	17	27	26	37	45	55	63	53	52	30	31	19	17
53	26	28	30	35	53	50	65	62	56	43	32	25	25
54	22	25	26	32	41	54	56	58	49	38	30	20	20
55	18	16	24	37	44	53	62	63	61	40	23	18	16
56	21	25	28	34	35	56	60	62	49	48	28	28	21
57	16	28	34	33	43	59	60	60	58	34	29	16	16
58	19	7	32	35	50	50	65	65	52	42	24	10	7
59	14	18	27	37	47	56	64	60	50	40	28	26	14
60	21	25	21	39	41	54	62	67	58	36	34	15	15
61	15	15	28	34	44	51	60	59	52	38	32	21	15
62	9	18	28	35	45	54	58	60	48	30	31	18	9
63	16	14	29	39	40	52	59	56	50	34	31	17	14
64	20	26	28	28	42	55	64	56	51	36	27		
65	14	10	28	30	43	46	55	51	52	29	31	23	10
66	12	21	27	37	38	49	61	63	50	33		22	
67	24	14	21	34	43	45	60	62	48	40	25	25	14
68	19	20	24	37	42	58	63	60	56	37	33	22	19
69	22	26	25	38	42	60	67	60		37	28	23	
70	10	16	26	34	46	54	61	63	48	43	28	24	10
71	17	20	29	38	42	55	64	61	59	51	35	26	17
72	14	23	29	34	48	53	59	62	57	46	27	23	14
73	14	14	26	30	43	61	62	61	58	43	30	22	14
74	23	22	27	35	43	55	60	59	52	33	27	24	22
75	22	24	24	33	47	57	60	65	54	34	32	17	17
MEAN													
S. D.													
TOTAL OBS.													

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

WHOLE DEGREES FAHRENHEIT

[illegible]

NAVWEASERVCOM

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

13769	OCEANA, VIRGINIA	45-49, 51-77
STATION	STATION NAME	YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

[illegible]



# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

YEARS

JAN

MONTH

PAGE 1

HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30		≥ 31	Dry Bulb	Wet Bulb
76/ 75																		1	1	
74/ 73																		5	5	
72/ 71																		2	2	
70/ 69																		7	7	
68/ 67																		10	10	1
66/ 65																		10	10	3
64/ 63																		14	14	4
62/ 61																		35	35	11
60/ 59																		46	46	21
58/ 57																		33	33	30
56/ 55																		39	39	23
54/ 53																		43	43	28
52/ 51																		58	58	16
50/ 49																		38	38	24
48/ 47																		64	64	33
46/ 45																		75	75	37
44/ 43																		66	66	44
42/ 41																		75	75	80
40/ 39																		56	56	41
38/ 37																		77	77	54
36/ 35																		69	69	59
34/ 33																		77	77	61
32/ 31																		57	57	46
30/ 29																		60	60	57
28/ 27																		56	56	74
26/ 25																		46	46	66
24/ 23																		26	26	51
22/ 21																		24	24	48
20/ 19																		22	22	47
18/ 17																		21	21	50
16/ 15																		14	14	32
14/ 13																		5	5	45
12/ 11																		5	5	28
10/ 9																		5	5	43
Element (X)	Mean No. of Hours with Temperature																Total			
Rel. Hum.																	Total			
Dry Bulb																				
Wet Bulb																				
Dew Point																				

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## PSYCHROMETRIC SUMMARY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

JAN  
MONTH

**JAN**  
**MONTH**

**PAGE 2**  
HOURS (L.S.)

HOURS (L.S.T.)

[illegible]

# PSYCHROMETRIC SUMMARY

13769  
STATION

OCEANA, VIRGINIA  
STATION NAME

73-77  
YEARS

FEB  
MONTH

PAGE 1  
HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point	
80/ 79									.1		.1							2	2			
78/ 77								.1	.1		.1							4	4			
76/ 75								.1					.1					4	4			
74/ 73								.1	.1		.1							5	5			
72/ 71					.1	.1	.2	.1	.1		.2							7	7			
70/ 69			.2			.1	.1	.1	.1	.2	.2							10	10			
68/ 67				.3	.3	.1	.1	.2	.3	.4								15	15	2		
66/ 65		.4	.4	.4	.6	.3	.2	.2	.2	.2								25	25	3		
64/ 63		.4	.2	.6	.1	.2	.4	.2	.2	.1								25	25	12	1	
62/ 61	.1	.2	.2	.5	.4	.3	.3	.8	.2	.1	.1							34	34	13	11	
60/ 59	.1	.5	.9	.3	.4	.4	.6	.4	.3									44	44	15	8	
58/ 57	.5	.4	.6	.6	.5	.3	.7	.6	.1	.1								43	43	28	8	
56/ 55		.3	.5	1.0	.7	.1	.4	.1	.2									37	37	24	18	
54/ 53	.2	.8	.8	.4	.6	.3	.4	.2										40	40	31	29	
52/ 51		1.1	.8	.5	.6	1.0	.8	.2										56	56	44	26	
50/ 49	.1	.8	.8	.5	.4	.8	.3	.1										43	43	59	22	
48/ 47		.7	1.0	.8	.5	.8	.4											48	48	51	26	
46/ 45	.4	1.1	.7	1.1	1.1	1.3	.3											66	66	54	40	
44/ 43	.3	1.3	1.2	1.6	.8	.7												67	67	56	35	
42/ 41	.4	2.0	1.4	1.2	1.2	.3												74	74	64	38	
40/ 39	.4	1.3	1.1	1.2	1.0	.5												62	62	85	56	
38/ 37	.4	1.8	1.7	1.9	.9													75	75	79	44	
36/ 35	.4	1.4	1.2	1.5	.5	.1												59	59	80	51	
34/ 33	.3	1.2	1.8	2.0	.8													68	68	81	67	
32/ 31	.1	1.2	1.2	1.3	.4													47	47	55	50	
30/ 29	.3	1.7	1.2	1.0														46	46	67	59	
28/ 27	.1	.8	1.7	1.1														41	41	66	66	
26/ 25	.1	.6	1.3	.9														41	41	66	66	
24/ 23		.4	.8	.4														38	38	46	76	
22/ 21		.2	.4	.2														18	18	38	61	
20/ 19		.2	.4	.2														8	8	36	46	
18/ 17		.3	.2															9	9	13	57	
16/ 15		.3	.2															5	5	9	48	
14/ 13		.2																2	2	11	41	
			.1															1	1	5	35	
Element (X)	ΣX											ΣX <sup>2</sup>		Mean No. of Hours with Temperature								
Rel. Hum.														Total								
Dry Bulb														≥ 80 F								
Wet Bulb														≥ 73 F								
Dew Point														≥ 93 F								

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## PSYCHROMETRIC SUMMARY

13769  
STATIONOCEANA, VIRGINIA  
STATION NAME

73-77

YEARS

**FEB**  
**MONTH**

MONTH

**PAGE 2**

HOURS (L.S.T.)

[illegible]

# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

MAR

YEARS

05 PSYCHROMETRIC SUMMARY JAN 68

PAGE 1  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL D.B./W.B.	Wet Bulb	Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb				
84/ 83										.2	.1		.1					4	4			
82/ 81										.2	.1	.1						4	4			
80/ 79									.2	.2	.2	.1	.1	.1				10	10			
78/ 77								.2	.2	.2	.1	.1						10	10			
76/ 75								.2	.2	.2	.1							8	8			
74/ 73								.2	.2	.2	.1							9	9			
72/ 71			.2	.1	.5	.4	.3	.1	.1									19	19	1		
70/ 69		.1	.4	.2	.4	.4	.5	.1										25	25	1		
68/ 67			.6	.5	.6	.4	.2	.1	.3		.1							34	34	12	2	
66/ 65		.2	.6	.7	.6	.5	.1	.1	.1	.1								36	36	17	4	
64/ 63		.3	.9	1.0	.6	.4	.3	.2	.3	.1								51	51	28	4	
62/ 61	.1	.5	.8	1.0	.8	.3	.2	.3	.2									52	52	39	15	
60/ 59	.2	.9	.9	.6	.5	.6	.3	.2	.2	.1								55	55	59	39	
58/ 57	.3	1.1	1.0	.4	.4	.5	.2	.3	.2									57	57	57	40	
56/ 55	.2	1.8	1.0	.9	.2	.6	.4	.4	.1									71	71	57	53	
54/ 53	.3	1.4	1.3	.8	.6	.5	1.1	.4	.1									81	81	63	53	
52/ 51	.7	2.3	2.3	.8	1.2	.8	.6	.2										111	111	68	66	
50/ 49	.6	2.1	2.6	1.3	1.0	.7	.7											112	112	77	72	
48/ 47	.6	2.8	1.0	1.5	1.0	1.0	.7											108	108	111	82	
46/ 45	.9	1.4	.9	.7	1.0	1.0												73	73	104	87	
44/ 43	.2	1.1	1.5	1.0	1.3	.8	.2											76	76	82	55	
42/ 41	.1	.9	1.0	1.1	1.0	.1												52	52	85	60	
40/ 39	.2	1.5	1.3	1.0	.6	.2												57	57	89	44	
38/ 37	.4	1.4	.5	.6	.6	.2												45	45	83	65	
36/ 35	.1	.7	.4	.6	.2	.2												27	27	72	57	
34/ 33	.1	.2	.5	.2	.2													15	15	44	76	
32/ 31	.1	.3	.1	.6	.2													16	16	24	57	
30/ 29	.2	.2		.3														8	8	27	35	
28/ 27	.1	.3	.2	.2	.2													11	11	14	41	
26/ 25			.2	.1														3	3	13	42	
24/ 23																				8	52	
22/ 21																				4	28	
20/ 19																				1	38	
18/ 17																					22	
Element (X)	$\sum X^2$		$\sum X$		$\bar{X}$		$\sigma_x$		No. Obs.		Mean No. of Hours with Temperature							Total				
Rel. Hum.																						
Dry Bulb																						
Wet Bulb																						
Dew Point																						

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# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

STATION

73-77

YEARS

APR

MONTH

PAGE 1

HOURS (L.S.T.)

PSYCHROMETRIC SUMMARY JAN 68

Temp. (F)	0	1-2	3-4	5-5	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	TOTAL D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
90/ 89													.1					1	1		
88/ 87												.1						1	1		
86/ 85								.5	.3	.1	.3	.1						5	5		
84/ 83								.2	.4	.3	.3	.1						13	13		
82/ 81								.3	.4	.3	.3	.1						19	19		
80/ 79						.2		.3	.1	.3	.2	.3	.1					16	16		
78/ 77								.5	.7	.3	.2							20	20		
76/ 75				.1	.3	.7		.5	.2	.3	.2	.1						26	26		
74/ 73				.2	.4	.6		.1	.3	.2	.1	.1						23	23		
72/ 71			.2	.4	1.1	.3		.8	.3	.2	.3	.1						42	42		1
70/ 69			.4	.9	.8	1.2		.3	.3	.3	.2							54	54		16
68/ 67		.1	1.0	1.6	.8	.5		.3	.3	.6	.2							63	63		18
66/ 65		.6	1.2	1.4	1.4	1.1		.3	.3	.3	.3							82	82		51
64/ 63		.3	.9	1.2	1.0	.7		.3	.8	.1								62	62		79
62/ 61		.8	.6	1.3	1.1	.6		1.3	.7	.3								78	78		32
60/ 59		.8	.8	1.0	.3	.9		.7	.3	.3								61	61		84
58/ 57		.3	1.2	.6	.9	1.2		.8	.1	.1								61	61		59
56/ 55		.8	1.0	1.0	1.3	1.1		.7	.8	.1								80	80		71
54/ 53		.7	1.1	1.1	2.0	1.0		.6	.4									82	82		65
52/ 51		1.0	1.7	1.8	1.8	.7		.4	.1									90	90		59
50/ 49	.1	.5	2.3	2.3	1.0	.4		.6	.2									88	88		94
48/ 47	.1	.4	1.3	1.5	.8	.8		.2	.1									63	63		95
46/ 45	.1	.9	1.3	1.0	.9	.5		.2										59	59		117
44/ 43		.9	.5	.6	.3	.4												33	33		85
42/ 41		.5	.2	.6	.6	.3												26	26		79
40/ 39		.2	.5	.4	.1	.1												15	15		45
38/ 37		.5	.4	.6	.3													21	21		42
36/ 35		.1	.3	.3	.2													10	10		28
34/ 33		.2	.1	.1	.1													5	5		23
32/ 31																					16
30/ 29																					8
28/ 27																					3
26/ 25																					22
24/ 23																					25
Element (X)	$\sum X^2$																	$\sum X$			
Rel. Hum.																					
Dry Bulb																					
Wet Bulb																					
Dew Point																					
										Mean No. of Hours with Temperature										Total	
										≤ 0 F										≥ 80 F	
										≤ 32 F										≥ 67 F	
										≤ 73 F										≥ 93 F	

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## PSYCHROMETRIC SUMMARY

13769  
STATION

**STATION NAME** OCEANA, VIRGINIA

73-77

APR  
MONTH

**PAGE 2**  
**HOURS (L.S.T.)**

HOURS (L.S.T.)

[illegible]

# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

YEARS

MAY

05

PAGE 1

0000

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30		≥ 31	Dry Bulb	Wet Bulb
92/ 91								.1	.2	.2	.1							3	3	
88/ 87							.1	.2	.3	.2	.1							10	10	
86/ 85							.2	.2	.2	.2	.2		.1					10	10	
84/ 83					.1	.1	.5	.3	.4	.1	.3							22	22	
82/ 81					.2	.6	.4	.4	.2	.1	.1							25	25	
80/ 79				.2	.6	.8	.5	.1	.2	.3	.1							33	33	
78/ 77	.1		.1	.2	.7	.4	.6	.6	.2	.2								39	39	2
76/ 75			.3	.9	.6	.9	.4	.2	.5	.2								49	49	2
74/ 73			.5	1.0	.4	.6	.4	.2	.2	.2								43	43	20
72/ 71	.1	.2	1.6	.9	.7	1.0	.5	.6	.1									71	71	38
70/ 69	.2	1.5	2.4	.7	1.5	.7	.7	.3	.2									103	103	64
68/ 67	.4	2.2	3.4	1.4	.9	1.0	.6	.3	.1									126	126	98
66/ 65	.2	2.5	2.3	1.3	.6	.7	.7	.2	.2									108	108	101
64/ 63	.3	3.3	1.9	3.1	1.6	1.0	.5	.3										150	150	124
62/ 61	.4	3.4	2.0	2.9	1.1	.6	.6	.2										141	141	133
60/ 59	.6	2.4	2.7	1.5	.7	.6	.8	.2										117	117	125
58/ 57		.8	.9	.7	.4	.2												38	38	132
56/ 55		1.1	1.2	.9	.6	.6	.2											56	56	127
54/ 53		.9	.7	.3	.5	.3												34	34	65
52/ 51	.1	.8	.5	.2	.2	.2												24	24	70
50/ 49		.3	.7	.6	.3													24	24	50
48/ 47		.4	.2	.1		.1												9	9	36
46/ 45		.1	.1															2	2	28
44/ 43			.2															2	2	16
42/ 41		.1																1	1	5
40/ 39																				4
38/ 37																				
36/ 35																				
34/ 33																				
32/ 31																				
30/ 29																				
28/ 27																				
TOTAL	2.320	121.7	16.9	11.8	10.4	7.7	4.3	2.7	1.4	.7	.1							1240	1240	1240

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Mean No. of Hours with Temperature

≥ 0 F

≥ 32 F

≥ 67 F

≥ 80 F

≥ 93 F

Total

744.0

744.0

744.0



# PSYCHROMETRIC SUMMARY

5 PSYCHROMETRIC SUMMARY JAN 68

13769 OCEANA, VIRGINIA

73-77

STATION NAME

13769

STATION NAME

STATION

MONTH

YEARS

PAGE 1

HOURS (L S T)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		Dew Point
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Dry Bulb	Wet Bulb	
96/ 95								.1	.1	.1								2	2		
94/ 93								.2	.2	.2								3	3		
92/ 91								.3	.3	.3	.1							10	10		
90/ 89								.4	.4	.4								9	9		
88/ 87							.2	.6	.7	.7	.2							23	23		
86/ 85					.2	.6	.7	1.2	.5	.2	.1							41	41		
84/ 83			.1	.2	.7	1.4	1.7	.4	.2	.1								64	64		
82/ 81			.3	.6	.7	2.2	1.0	.4	.2	.1								67	67		
80/ 79	.1	.7	1.1	1.2	2.0	1.6	1.1	.4	.2	.1								81	81	1	
78/ 77	.5	1.2	1.9	2.8	.9	.9	.6	.1	.1									78	78	2	5
76/ 75	1.0	1.2	3.0	2.0	.7	.5	.2											108	108	57	21
74/ 73	1.1	2.3	3.6	2.3	.4	.9	.2											104	104	122	43
72/ 71	1.4	3.2	3.3	2.2	1.1	.5	.3	.1	.1	.1								132	132	166	82
70/ 69	1.4	3.2	3.3	2.2	1.1	.5	.3	.1	.1	.1								148	148	186	114
68/ 67	1.4	2.1	3.9	1.4	.5	.2		.3										118	118	165	214
66/ 65	.3	2.7	2.7	1.2	.2	.2		.1										91	91	138	163
64/ 63	.4	1.6	1.1	.4	.6	.1	.1											51	51	119	131
62/ 61	.2	.4	.9	.6	.5	.2												33	33	98	123
60/ 59	.1	1.0	.3	.7	.2													27	27	33	89
58/ 57		.2	.1	.2														5	5	37	79
56/ 55		.2																4	4	28	43
54/ 53		.1																1	1	20	25
52/ 51																				6	18
50/ 49																				1	26
48/ 47																				7	7
46/ 45																				4	4
44/ 43																				6	6
42/ 41																				3	3
40/ 39																				1	1
38/ 37																				1	1
36/ 35																				1	1
34/ 33																				1	1
32/ 31																				1	1
TOTAL	6.516	822.8	16.910	210.2	7.1	4.7	3.1	1.2	.4									1200	1200	1200	1200
Element (X)	ΣX <sup>2</sup>	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	Mean No. of Hours with Temperature	Mean No. of Hours with Temperature	Mean No. of Hours with Temperature	Mean No. of Hours with Temperature
Rel. Hum.	7027955	89793	74.8	16.052	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	≥80 F	≥80 F	≥80 F	≥80 F
Dry Bulb	6494506	87842	73.2	7.324	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	≥93 F	≥93 F	≥93 F	≥93 F
Wet Bulb	5469964	80756	67.3	5.430	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	≥93 F	≥93 F	≥93 F	≥93 F
Dew Point	4955424	76730	63.9	6.404	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	≥93 F	≥93 F	≥93 F	≥93 F

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# PSYCHROMETRIC SUMMARY

13769 OCEANA, VIRGINIA STATION NAME 71-77 YEARS JUL MONTH

PAGE 1  
HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	D.B./W.B.	Wet Bulb	Dew Point
98/ 97										.1	.2	.1						1	1	
96/ 95									.1	.3	.2	.1						4	4	
94/ 93									.1	.4	.2	.1						7	7	
92/ 91									.1	.5	.2	.1						18	18	
90/ 89									.1	.6	.2	.1						21	21	
88/ 87									.1	.7	.2	.1						42	42	
86/ 85									.1	.8	.2	.1						58	58	
84/ 83									.1	.9	.2	.1						84	84	
82/ 81									.1	1.0	.2	.1						103	103	5
80/ 79									.1	1.1	.2	.1						133	133	19
78/ 77									.1	1.2	.2	.1						141	141	55
76/ 75									.1	1.3	.2	.1						136	136	124
74/ 73									.1	1.4	.2	.1						145	145	225
72/ 71									.1	1.5	.2	.1						121	121	219
70/ 69									.1	1.6	.2	.1						109	109	211
68/ 67									.1	1.7	.2	.1						67	67	125
66/ 65									.1	1.8	.2	.1						30	30	119
64/ 63									.1	1.9	.2	.1						14	14	59
62/ 61									.1	2.0	.2	.1						4	4	48
60/ 59									.1	2.1	.2	.1						1	1	22
58/ 57									.1	2.2	.2	.1						1	1	7
56/ 55									.1	2.3	.2	.1								2
54/ 53									.1	2.4	.2	.1								17
52/ 51									.1	2.5	.2	.1								15
50/ 49									.1	2.6	.2	.1								2
46/ 45									.1	2.7	.2	.1								3
TOTAL	2.914	4.424	8.154	13.610	20.0	8.9	5.1	2.7	1.3	.6	.4							1240	1240	1240

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# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

YEARS

AUG

MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
98/ 97									.1	.1	.2	.1						1	1		
96/ 95									.1	.1	.2	.1						5	5		
94/ 93								.6	.2	.5	.4							17	17		
92/ 91							.2	.2	.5	.4								16	16		
90/ 89						.4	.4	.6	.2	.1	.1							20	20		
88/ 87					.2	.6	1.2	.3	.1	.1								34	34		
86/ 85				.1	.9	1.9	1.4	.3	.3									56	56		
84/ 83				.6	1.9	1.9	1.4	.2	.1	.2								79	79		
82/ 81			.3	1.7	3.2	1.9	1.0	.1	.1									102	102	3	
80/ 79			.7	1.9	3.5	1.4	.5	.2	.1									102	102	28	
78/ 77		1.1	3.1	3.8	2.7	1.0	.3	.1										152	152	65	6
76/ 75	.1	2.7	3.1	2.4	1.1	.3	.2											123	123	130	48
74/ 73	.7	3.7	4.8	1.5	.9	.2	.2	.1										150	150	238	127
72/ 71	1.7	3.6	3.5	1.0	1.1	.1	.2											139	139	249	203
70/ 69	1.9	2.7	2.7	1.0	.8	.3												116	116	200	262
68/ 67	.6	1.5	2.0	1.5	.2	.1												74	74	117	206
66/ 65	.2	.9	1.0	.5	.1													33	33	76	125
64/ 63		.3	.2	.3														10	10	68	85
62/ 61		.2	.2	.2														7	7	40	58
60/ 59		.2	.2															4	4	15	52
58/ 57																				8	37
56/ 55																				3	13
54/ 53																					11
52/ 51																					7
TOTAL	5.217	.021	.816	.516	.910	.2	6.6	2.9	1.4	1.5	.1							1240	1240	1240	1240

Element (X)	ΣX <sup>2</sup>	ΣX	X̄	σ <sub>x</sub>	No. Obs.	Mean No. of Hours with Temperature							Total
Rel. Hum.	7471821	94671	76.3	14.030	1240	≥ 75 F	≥ 80 F	≥ 85 F	≥ 90 F	≥ 95 F	13.8	744.0	
Dry Bulb	7294100	94744	76.4	6.665	1240	711.6	514.2	223.6	9.0			744.0	
Wet Bulb	6219992	87648	70.7	4.464	1240	618.0	278.4					744.0	
Dew Point	5735135	84117	67.8	4.833	1240	511.2	165.6					744.0	

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**ALL**

SEP  
MONTH

**PAGE 1**  
**HOURS (L.S.)**

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# PSYCHROMETRIC SUMMARY

5005 PSYCHROMETRIC SUMMARY JAN 68

13769 OCEANA, VIRGINIA STATION NAME

73-77 YEARS

OCT MONTH

PAGE 1

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		D.B./W.B.	TOTAL		Dew Point
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb					
88 / 67									.2									2	2					
86 / 85										.1								1	1					
84 / 83						.2	.2	.2	.2									10	10					
82 / 81							.1	.1										4	4					
80 / 79				.3	.2	.1	.1				.1							10	10					
78 / 77				.3	.3	.2	.2	.1	.1	.2								9	9					
76 / 75			.2	.2	.2	.3	.2	.2	.1	.1								19	19	1				
74 / 73		.2	.4	.5	.5	.3	.2	.2	.2	.1	.1							25	25	11				
72 / 71	.2	1.5	.5	1.2	.5	.6	.2	.2	.4									63	63	25				
70 / 69	.6	.9	.6	.9	.7	.6	.6	.1										62	62	43				
68 / 67	.6	1.8	2.7	1.4	.7	1.1	.3	.1	.2									109	109	47				
66 / 65	.6	2.4	3.0	1.5	1.1	1.0	.8	.3	.2	.2								137	137	58				
64 / 63	.4	2.8	2.0	1.1	1.4	1.2	.6	.2	.1									121	121	71				
62 / 61	.4	2.5	1.3	1.9	1.1	.4	.4	.2	.1	.1								105	105	100				
60 / 59	.3	2.3	1.7	1.8	.9	.9	.3	.1	.2									105	105	107				
58 / 57	.1	1.5	1.5	1.2	.7	.5	.2	.2										72	72	104				
56 / 55	.1	1.8	1.6	1.4	.4	.2	.2											70	70	90				
54 / 53		2.2	1.4	1.2	.6	.2	.1											71	71	103				
52 / 51	.2	1.0	1.0	.6	.3	.3	.2											45	45	91				
50 / 49	.5	1.4	1.0	.4	.3	.1	.1											47	47	86				
48 / 47	.2	1.6	.7	.3	.6	.6	.1											51	51	64				
46 / 45	.2	1.2	.6	.2	.4	.1												34	34	53				
44 / 43		.3	.3	.4	.5													19	19	36				
42 / 41	.1	.1	.5	.3	.3													16	16	26				
40 / 39		.2	.3	.2														9	9	23				
38 / 37		.3	.4	.2														12	12	24				
36 / 35	.2	.3	.1															7	7	17				
34 / 33			.2															2	2	15				
32 / 31		.2	.1															3	3	4				
30 / 29																				4				
28 / 27																								
26 / 25																								
24 / 23																								
22 / 21																								
Element (X)	ΣX <sup>2</sup>	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	ΣX	Mean No. of Hours with Temperature			Total			
Rel. Hum.																		≥ 80 F	≥ 93 F	Total				
Dry Bulb																								
Wet Bulb																								
Dew Point																								

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# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

NOV

YEARS

PAGE 1

HOURLY (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point
82/ 81								.1	.1	.1	.1	.1						1	1		
80/ 79							.2	.1	.1	.1	.1	.1						6	6		
78/ 77					.2	.1	.2	.1	.1	.1	.1	.1						8	8		
76/ 75						.2	.2	.2	.2	.2	.2	.2						11	11		
74/ 73				.2	.2	.2	.2	.1	.3	.2	.2	.2						16	16		
72/ 71			.1	.2	.2	.2	.1	.2	.2	.2	.2	.2						15	15		
70/ 69	.4	.7	1.0	.4	.4	.4	.3	.1	.1	.2	.2	.2						33	33	2	
68/ 67	.7	.8	.8	.4	.4	.4	.2	.2	.2	.2	.2	.2						36	36	21	3
66/ 65	.3	2.0	.7	.4	.4	.4	.2	.2	.2	.2	.2	.2						60	60	41	27
64/ 63	.1	1.8	1.0	.5	.7	.1	.1	.3	.2	.2	.2	.2						59	59	54	25
62/ 61	.2	1.8	.8	1.2	.7	.5	.2	.2	.2	.2	.2	.2						71	71	46	43
60/ 59	.2	1.4	1.2	1.1	.4	.6	.1	.2	.1	.1	.1	.1						63	63	62	53
58/ 57	.1	1.3	.7	.4	.7	.7	.2	.2	.2	.1	.1	.1						53	53	50	44
56/ 55	.1	1.2	.7	.7	.4	.3	.3	.2	.2	.2	.2	.2						49	49	63	38
54/ 53	.2	1.1	1.4	.8	.5	.5	.6	.1	.1	.1	.1	.1						63	63	49	53
52/ 51	.3	.6	.9	1.0	1.2	.9	.7	.1	.1	.1	.1	.1						68	68	59	59
50/ 49	.8	1.9	1.0	1.3	.8	.9	.3	.3	.3	.3	.3	.3						86	86	58	46
48/ 47	.3	2.4	.8	1.2	1.7	.8	.2	.2	.2	.2	.2	.2						91	91	72	48
46/ 45	.2	1.3	1.5	1.4	1.0	.8	.8	.8	.8	.8	.8	.8						76	76	75	65
44/ 43	.5	1.2	1.1	1.2	1.2	.7	.7	.7	.7	.7	.7	.7						70	70	73	42
42/ 41	.3	.7	1.1	1.2	1.1	.2	.2	.2	.2	.2	.2	.2						55	55	82	60
40/ 39	.3	1.2	.7	1.0	.6	.6	.6	.6	.6	.6	.6	.6						45	45	82	43
38/ 37	.2	1.1	1.3	.7	.1	.1	.1	.1	.1	.1	.1	.1						40	40	67	60
36/ 35	.5	1.1	1.4	.8	.3	.3	.3	.3	.3	.3	.3	.3						50	50	75	59
34/ 33	.1	.5	.7	.9	.9	.9	.9	.9	.9	.9	.9	.9						27	27	60	44
32/ 31	.3	.3	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9						15	15	33	69
30/ 29	.3	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2						14	14	29	55
28/ 27	.1	.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4						7	7	24	49
26/ 25	.4	.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2						8	8	7	33
24/ 23	.3	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2						4	4	11	75
22/ 21																				5	35
20/ 19																					30
18/ 17																					14
16/ 15																					16
Element (X)	Mean No. of Hours with Temperature																Total				
Rel. Hum.	≤ 0 F																≥ 80 F	≥ 93 F	Total		
Dry Bulb																					
Wet Bulb																					
Dew Point																					

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION	13769
1	13769
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95	13769
96	13769
97	13769
98	13769
99	13769
100	13769

OCEANA, VIRGINIA STATION

73-77

YEARS

NOV  
MONTH

**82410**

## PSYCHROMETRIC SUMMARY

JAN 68

**PAGE 2**  
**HOURS (L.S.)**

[illegible]

# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

YEARS

DEC

1975

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL									
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point							
76/ 75					.1													1	1									
74/ 73				.1														1	1									
72/ 71			.1	.1				.1										3	3									
70/ 69		.1	.1	.1	.1		.2	.1										6	6									
68/ 67		.1	.1	.1	.2	.2	.2											7	7	4	2							
66/ 65		.2	.2	.2	.1	.2	.1											12	12	3	1							
64/ 63	.2	.2	.4	.2	.3	.2	.1	.1										20	20	9	6							
62/ 61	.1	.6	.4	.6	.2	.1	.3											29	29	10	6							
60/ 59	.2	1.3	.8	.3		.1	.2	.3										41	41	22	12							
58/ 57	.2	1.5	.7	.6		.2												39	39	41	25							
56/ 55	.2	1.4	.9	.3	.4	.3	.1											44	44	43	29							
54/ 53	.2	1.5	1.3	.9	.7	.2	.2											63	63	38	32							
52/ 51	.6	1.5	1.9	1.0	.6	.3	.4											79	79	47	41							
50/ 49	.4	2.1	1.0	1.1	.6	.4	.4											74	74	58	58							
48/ 47	.7	2.9	.4	1.6	1.4	.5												93	93	70	49							
46/ 45	.6	1.9	2.2	.7	.6	.3												79	79	85	68							
44/ 43	1.2	2.3	1.6	1.4	1.0	.3												97	97	76	68							
42/ 41	1.3	.9	1.5	1.3	.6													69	69	105	38							
40/ 39	1.0	1.0	.2	.7	.7	.1												46	46	79	69							
38/ 37	.8	1.5	1.0	1.2	.2	.1												59	59	65	65							
36/ 35	.7	1.2	1.0	1.6	.2													60	60	62	66							
34/ 33	.5	1.8	1.8	.8	.4													65	65	57	58							
32/ 31	.2	1.2	1.3	1.0	.2													49	49	67	37							
30/ 29	.5	1.6	2.0	.9	.2													64	64	65	58							
28/ 27	.6	1.1	1.3	.6														44	44	60	68							
26/ 25	.3	1.2	1.4	.4														41	41	52	44							
24/ 23	.3	.9	.6															23	23	51	57							
22/ 21	.2	.4	.3															12	12	35	52							
20/ 19	.4	.4	.2															12	12	24	61							
18/ 17	.2	.2	.1															6	6	8	42							
16/ 15	.1	.1																2	2	4	40							
14/ 13																					27							
12/ 11																					20							
10/ 9																					12							
Element (X)																	ΣX <sup>2</sup>	ΣX	No. Obs.				Mean No. of Hours with Temperature				Total	
Rel. Hum.																												
Dry Bulb																												
Wet Bulb																												
Dew Point																												

NAVWEASERVCOM



## PSYCHROMETRIC SUMMARY

13769  
STATION

**OCEANA, VIRGINIA**

73-77

YEARS

DEC  
MONTH

05

PSYCHROMETRIC SUMM.

JAN 68

**Black**

1

**PAGE 2**  
**HOURS (L.S.)**

[illegible]

NAVWEASERVCOM

# PSYCHROMETRIC SUMMARY

13769

OCEANA, VIRGINIA

73-77

YEARS

ALL MONTH

PAGE 1

HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																		TOTAL		TOTAL			
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point			
98/ 97																		2	2					
96/ 95																		11	11					
94/ 93																		27	27					
92/ 91																		50	50					
90/ 89																		55	55					
88/ 87																		126	126					
86/ 85																		196	196					
84/ 83																		305	305					
82/ 81																		381	381	9				
80/ 79																		469	469	52	5			
78/ 77																		537	537	151	29			
76/ 75																		617	617	371	124			
74/ 73																		649	649	753	301			
72/ 71																		756	756	850	577			
70/ 69																		844	844	875	876			
68/ 67																		762	762	752	859			
66/ 65																		714	714	767	738			
64/ 63																		632	632	784	699			
62/ 61																		628	628	689	624			
60/ 59																		593	593	648	674			
58/ 57																		414	414	588	602			
56/ 55																		463	463	568	521			
54/ 53																		485	485	491	529			
52/ 51																		533	533	494	536			
50/ 49																		512	512	542	517			
48/ 47																		527	527	551	484			
46/ 45																		464	464	566	503			
44/ 43																		430	430	504	389			
42/ 41																		368	368	500	429			
40/ 39																		290	290	477	416			
38/ 37																		329	329	441	417			
36/ 35																		282	282	419	403			
34/ 33																		259	259	354	395			
32/ 31																		187	187	274	341			
Element (X)	$\sum X^2$																		$\sum X$		Mean No. of Hours with Temperature			
Rel. Hum.																					≥ 93 F		Total	
Dry Bulb																					≥ 80 F			
Wet Bulb																					≥ 73 F			
Dew Point																					≥ 67 F			
																					≤ 32 F			
																					≤ 0 F			
																					No. Obs.			
																			$\sigma_x$					
																			$\bar{X}$					

NAVWEASERVCOM

# PSYCHROMETRIC SUMMARY

13769 OCEANA, VIRGINIA 73-77 ALL MONTH  
 13769 PSYCHROMETRIC SUMMARY JAN 68

13769 OCEANA, VIRGINIA STATION NAME

13769 STATION

PAGE 2  
 HOURS (L.S.T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																TOTAL		TOTAL	
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dew Point	
30/ 29	.1	.4	.5	.3	.0													192	192	
28/ 27	.1	.3	.5	.3														159	159	
26/ 25	.1	.3	.4	.2														136	136	
24/ 23	.0	.2	.2	.1														71	71	
22/ 21	.0	.1	.1	.0														44	44	
20/ 19	.1	.1	.1	.0														43	43	
18/ 17	.0	.1	.1															32	32	
16/ 15	.0	.1	.0															18	18	
14/ 13		.0	.0															6	6	
12/ 11		.0	.0															5	5	
10/ 9																				
8/ 7																				
6/ 5		.0																		
4/ 3		.0																2	2	
2/ 1																				
0/- 1																				
- 2/- 3																				
- 4/- 5																				
- 6/- 7																				
- 8/- 9																				
-10/-11																				
-14/-15																				
TOTAL	4.821	4.227	17.412	5.7	3.3	1.8	.8	.4	.1	.0								14607	14607	

NAWWEASERVCOM



# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DRY-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13769 OCEANA, VIRGINIA

73-77

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 38.6 S.D. 12.597 TOTAL OBS 155	41.2 11.793 141	48.7 9.927 155	54.3 9.544 150	61.4 6.751 155	68.8 5.020 150	72.2 4.484 155	72.3 4.445 155	68.4 5.448 150	57.0 8.856 155	48.6 10.872 150	41.0 11.702 155	56.1 14.975 1826
04	MEAN 37.8 S.D. 13.088 TOTAL OBS 155	39.7 11.828 141	47.5 9.841 155	52.3 9.860 150	60.3 6.657 155	67.6 4.844 150	70.9 4.377 155	71.1 4.317 155	67.3 5.558 150	56.0 9.222 155	47.3 10.883 150	40.3 11.698 155	54.9 14.977 1826
07	MEAN 36.7 S.D. 12.893 TOTAL OBS 155	38.8 11.743 141	47.2 9.929 155	53.9 9.316 150	63.1 5.774 155	70.6 4.923 150	73.4 3.806 155	72.8 3.867 155	68.2 5.286 150	56.2 9.365 155	46.3 10.895 150	39.4 11.835 155	55.6 15.955 1826
10	MEAN 41.3 S.D. 12.203 TOTAL OBS 155	45.5 11.329 141	53.3 10.323 155	61.0 10.477 150	69.1 7.535 155	76.9 6.583 150	80.4 4.427 155	79.9 4.985 155	75.1 5.443 150	63.6 7.847 155	54.4 9.956 150	44.4 10.421 155	62.1 16.287 1826
13	MEAN 44.9 S.D. 12.851 TOTAL OBS 155	49.4 12.923 141	56.7 11.291 155	64.7 11.422 149	71.2 8.118 155	78.8 7.435 150	82.8 5.519 155	82.8 6.453 155	77.6 6.541 150	66.2 8.499 155	58.0 11.268 150	47.8 10.787 155	65.1 16.369 1825
16	MEAN 45.3 S.D. 12.450 TOTAL OBS 155	50.0 12.556 141	57.1 11.200 155	64.7 10.478 150	71.1 8.217 155	78.0 7.585 150	82.1 5.886 155	81.6 6.622 155	76.7 6.287 150	65.5 7.985 155	57.6 11.133 150	47.6 10.342 155	64.8 15.866 1826
19	MEAN 41.5 S.D. 12.071 TOTAL OBS 155	45.0 11.898 141	52.7 9.633 155	59.1 9.639 150	66.5 7.322 155	74.1 6.339 150	77.7 4.905 155	76.8 5.197 155	71.8 5.414 150	60.1 7.756 155	51.8 10.653 150	43.3 10.340 155	60.1 15.459 1826
22	MEAN 39.9 S.D. 12.146 TOTAL OBS 155	42.6 11.999 141	50.6 9.325 155	56.0 9.506 150	63.1 6.715 155	70.8 5.447 150	74.0 4.624 155	73.9 4.570 155	69.7 5.699 150	58.3 8.222 155	49.8 10.710 150	41.9 11.020 155	57.6 14.987 1826
ALL HOURS	MEAN 40.7 S.D. 12.851 TOTAL OBS 1240	44.0 12.604 1128	51.7 10.811 1240	58.2 11.009 1199	65.7 8.244 1240	73.2 7.325 1200	76.7 6.478 1240	76.4 6.666 1240	71.9 6.860 1200	60.4 9.334 1240	51.7 11.573 1200	43.2 11.405 1240	59.6 16.083 14607

# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

WET-BULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13769 OCEANA, VIRGINIA

73-77

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	MEAN 35.7 S.D. 12.527 TOTAL OBS 155	37.0 11.046 141	44.3 9.718 155	48.7 9.240 150	57.5 6.790 155	65.5 5.195 150	68.6 4.328 155	69.0 4.141 155	65.3 5.885 150	53.8 9.238 155	45.1 11.013 150	38.2 11.524 155	52.5 14.947 1826
04	MEAN 35.0 S.D. 12.848 TOTAL OBS 155	36.0 11.163 141	43.7 9.838 155	47.7 9.617 150	56.7 6.995 155	64.9 5.307 150	68.0 4.414 155	68.3 4.048 155	64.7 6.047 150	53.2 9.565 155	44.2 10.999 150	37.9 11.538 155	51.8 15.081 1826
07	MEAN 34.2 S.D. 12.716 TOTAL OBS 155	35.3 11.330 141	43.8 10.081 155	49.2 9.172 150	59.2 6.692 155	67.1 5.123 150	69.7 3.968 155	69.8 3.691 155	65.5 5.769 150	53.7 9.507 155	43.6 11.159 150	37.2 11.673 155	52.5 15.823 1826
10	MEAN 37.5 S.D. 12.060 TOTAL OBS 155	39.6 10.512 141	47.3 10.131 155	51.9 9.659 150	61.2 7.140 155	68.7 5.298 150	71.7 4.233 155	72.3 4.114 155	67.9 5.787 150	57.3 8.564 155	48.5 10.308 150	40.6 10.531 155	55.4 15.041 1826
13	MEAN 39.2 S.D. 11.980 TOTAL OBS 155	41.5 10.851 141	48.6 9.677 155	53.3 9.543 149	61.9 6.981 155	69.1 5.316 150	72.1 4.364 155	73.0 4.451 155	68.4 5.766 150	57.8 8.316 155	49.7 10.513 150	42.1 10.436 155	56.5 14.649 1825
16	MEAN 39.5 S.D. 11.608 TOTAL OBS 155	41.7 10.108 141	48.8 9.208 155	53.6 8.892 150	62.0 6.930 155	69.0 5.325 150	72.1 4.408 155	72.6 4.439 155	68.1 5.581 150	57.6 8.223 155	49.4 10.435 150	42.1 9.974 155	56.5 14.351 1826
19	MEAN 37.5 S.D. 11.756 TOTAL OBS 155	39.2 10.481 141	46.8 8.846 155	51.1 8.558 150	59.9 6.359 155	67.7 5.153 150	70.8 4.051 155	70.7 4.246 155	66.8 5.720 150	55.5 8.622 155	46.9 10.886 150	39.7 10.334 155	54.5 14.653 1826
22	MEAN 36.6 S.D. 12.038 TOTAL OBS 155	37.8 10.816 141	45.7 9.008 155	49.8 8.906 150	58.5 6.595 155	66.4 5.155 150	69.5 4.262 155	69.7 4.072 155	65.9 5.934 150	54.3 8.755 155	45.9 10.937 150	39.1 10.956 155	53.3 14.735 1826
ALL HOURS	MEAN 36.9 S.D. 12.292 TOTAL OBS 1240	38.5 10.993 1128	46.1 9.743 1240	50.7 9.401 1199	59.6 7.048 1240	67.3 5.430 1200	70.3 4.502 1240	70.7 4.464 1240	66.6 5.947 1200	55.4 9.016 1240	46.7 10.975 1200	39.6 10.998 1240	54.1 15.015 14607

## MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

13769 OCEANA, VIRGINIA

73-77

STATION NAME

YEARS

HRS.(L.S.T.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	30.4 15.647 155	30.2 13.854 141	38.8 12.747 155	42.7 11.554 150	54.4 8.179 155	63.5 6.143 150	66.6 4.880 155	67.2 4.605 155	63.4 6.999 150	50.8 11.146 155	41.0 13.205 150	33.9 13.684 155	48.7 17.374 1826
04	29.7 15.812 155	29.4 14.029 141	38.7 12.686 155	42.6 11.586 150	53.7 8.678 155	63.3 6.204 150	66.3 5.004 155	66.9 4.546 155	63.0 7.107 150	50.6 11.100 155	40.4 12.901 150	34.1 13.599 155	48.3 17.427 1826
07	29.4 15.337 155	29.0 14.186 141	39.4 12.924 155	44.3 11.264 150	56.1 8.747 155	65.2 5.888 150	67.8 4.850 155	68.3 4.299 155	63.9 6.794 150	51.4 10.826 155	40.1 13.067 150	33.7 13.586 155	49.2 17.925 1826
10	31.2 15.266 155	30.9 13.809 141	40.2 13.781 155	42.9 12.825 150	55.4 9.650 155	64.1 6.401 150	67.2 5.870 155	68.6 4.957 155	63.7 7.624 150	51.8 11.449 155	41.9 13.528 150	35.0 13.575 155	49.5 17.610 1826
13	30.6 15.332 155	30.4 14.273 141	39.6 13.468 155	42.3 12.949 149	55.1 9.642 155	63.8 6.880 150	66.7 6.206 155	68.4 5.274 155	63.1 7.557 150	50.7 11.534 155	40.5 14.266 150	34.2 14.022 155	48.9 17.851 1825
16	30.6 15.265 155	30.1 13.697 141	39.7 13.094 155	42.9 12.719 150	55.5 9.591 155	64.0 6.777 150	67.0 6.256 155	68.2 5.142 155	63.1 7.629 150	50.6 11.809 155	40.3 14.395 150	34.5 13.546 155	49.0 17.770 1826
19	30.8 14.998 155	30.6 13.386 141	39.8 12.286 155	43.1 11.509 150	55.0 8.110 155	63.9 6.609 150	67.2 5.263 155	67.6 4.949 155	63.7 7.006 150	51.4 11.114 155	41.0 13.969 150	34.3 13.266 155	49.1 17.330 1826
22	30.7 15.212 155	30.5 13.323 141	39.7 12.278 155	43.2 11.616 150	55.1 8.107 155	63.8 6.254 150	67.1 4.943 155	67.5 4.627 155	63.5 6.976 150	50.8 10.930 155	41.0 13.540 150	34.5 13.440 155	49.0 17.250 1826
ALL HOURS	30.4 15.327 1240	30.1 13.793 1128	39.5 12.893 1240	43.0 11.997 1199	55.0 8.863 1240	63.9 6.405 1200	67.0 5.439 1240	67.8 4.834 1240	63.4 7.204 1200	51.0 11.220 1240	40.8 13.589 1200	34.3 13.558 1240	49.0 17.568 14607



## RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

73-77

PERIOD

JAN  
MONTHCUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	99.4	97.4	88.4	75.5	61.3	41.9	18.1	73.8	155
	04	100.0	100.0	99.4	97.4	91.0	72.9	61.3	46.5	16.8	74.2	155
	07	100.0	100.0	100.0	98.7	94.8	81.3	64.5	48.4	20.6	76.3	155
	10	100.0	100.0	99.4	97.4	81.9	65.8	44.5	31.6	15.5	69.3	155
	13	100.0	100.0	98.1	85.2	64.5	43.2	30.3	16.1	5.8	59.7	155
	16	100.0	100.0	94.2	82.6	63.9	41.3	31.0	18.1	5.2	59.3	155
	19	100.0	100.0	98.7	92.3	81.3	63.9	49.0	27.7	10.3	67.7	155
	22	100.0	100.0	99.4	96.8	86.5	73.5	56.1	34.8	15.5	71.5	155
TOTALS		100.0	100.0	98.6	93.5	81.5	64.7	49.8	33.1	13.5	69.0	1240



PERIOD

STATION NAME

STATION

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN								MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.	
		10%	20%	30%	40%	50%	60%	70%	80%			90%
MAR	01	100.0	100.0	98.7	93.5	81.9	71.6	58.1	35.5	12.9	70.9	155
	04	100.0	100.0	100.0	94.8	87.1	74.8	63.2	42.6	15.5	73.8	155
	07	100.0	100.0	100.0	96.8	90.3	80.0	65.8	47.7	24.5	76.1	155
	10	100.0	100.0	98.7	87.1	69.0	52.3	35.5	25.8	13.5	64.1	155
	13	100.0	99.4	91.0	71.0	52.3	40.0	29.0	18.7	9.0	56.8	155
	16	100.0	98.1	85.2	70.3	53.5	43.2	31.6	20.0	9.7	56.9	155
	19	100.0	99.4	94.2	85.2	75.5	56.6	41.3	28.4	10.3	65.0	155
	22	100.0	100.0	97.4	91.0	80.0	66.5	54.2	32.9	12.3	68.9	155
TOTALS		100.0	99.6	95.7	86.2	73.7	60.7	47.3	31.5	13.5	66.6	1240



# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

APR  
MONTH

73-77

PERIOD

OCEANA, VIRGINIA  
STATION NAME

13769  
STATION

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	100.0	93.3	86.7	66.7	44.7	15.3	1.3	66.6	150
	04	100.0	100.0	100.0	90.0	94.0	75.3	50.0	30.0	2.7	70.6	150
	07	100.0	100.0	100.0	98.7	93.3	77.3	52.7	29.3	6.7	71.2	150
	10	100.0	100.0	94.7	81.3	56.0	29.3	14.0	5.3	1.3	53.5	150
	13	100.0	98.7	81.9	59.7	35.6	16.8	11.4	4.7	2.0	46.7	149
	16	100.0	99.3	84.0	61.3	37.3	22.0	14.7	6.0	.7	48.1	150
	19	100.0	99.3	95.3	83.3	68.7	42.0	24.7	10.0	1.3	58.0	150
	22	100.0	100.0	98.0	92.0	79.3	62.7	35.3	16.0	1.3	63.9	150
TOTALS		100.0	99.7	94.2	83.7	68.9	49.0	30.9	14.6	2.2	59.3	1199

## RELATIVE HUMIDITY

13769  
TATION

OCEANA, VIRGINIA

STATION NAME

73-77

PERIOD

MAY  
MONTH

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	99.4	96.8	91.0	74.8	53.5	12.9	79.0	155
	04	100.0	100.0	100.0	99.4	96.8	88.4	78.7	62.6	16.8	80.3	155
	07	100.0	100.0	100.0	100.0	97.4	85.8	75.5	56.8	20.6	79.2	155
	10	100.0	100.0	99.4	94.2	75.5	52.9	33.5	19.4	5.2	63.7	155
	13	100.0	100.0	99.4	83.2	61.3	45.2	29.0	15.5	5.2	59.5	155
	16	100.0	100.0	98.7	83.2	63.9	49.0	32.3	17.4	5.2	60.5	155
	19	100.0	100.0	100.0	94.8	87.7	66.5	45.8	26.5	3.9	68.4	155
	22	100.0	100.0	100.0	99.4	95.5	89.0	69.7	46.5	8.4	76.4	155
TOTALS		100.0	100.0	99.7	94.2	84.4	71.0	54.9	37.3	9.8	70.9	1240





**MONTH**  
**JUL**

PERIOD

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	01	100.0	100.0	100.0	100.0	100.0	99.4	90.3	65.8	21.3	83.1	155
	04	100.0	100.0	100.0	100.0	100.0	98.7	92.9	80.0	29.0	85.9	155
	07	100.0	100.0	100.0	100.0	99.4	97.4	92.3	66.5	20.0	83.2	155
	10	100.0	100.0	100.0	98.7	91.6	63.9	29.7	12.3	4.5	65.4	155
	13	100.0	100.0	99.4	94.8	74.8	45.2	20.6	9.7	3.2	60.1	155
	16	100.0	100.0	99.4	94.8	74.8	51.0	30.3	11.6	2.6	62.0	155
	19	100.0	100.0	100.0	100.0	94.8	78.1	54.2	27.7	6.5	71.3	155
	22	100.0	100.0	100.0	100.0	100.0	97.4	81.3	51.6	14.2	79.9	155
TOTALS		100.0	100.0	99.9	98.5	91.9	78.9	61.5	40.7	12.7	73.9	1240

## RELATIVE HUMIDITY

13769  
STATION

OCEANA, VIRGINIA      STATI

STATION NAME

73-77

PERIOD

**AUG**  
**MONTH**

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	100.0	100.0	99.4	91.6	66.5	27.1	84.4	155
	04	100.0	100.0	100.0	100.0	100.0	100.0	91.6	78.7	36.1	87.1	155
	07	100.0	100.0	100.0	100.0	100.0	100.0	91.6	76.8	34.2	86.4	155
	10	100.0	100.0	100.0	100.0	97.4	80.6	41.3	12.3	3.2	69.3	155
	13	100.0	100.0	100.0	98.7	84.5	54.8	25.2	9.7	3.2	63.2	155
	16	100.0	100.0	100.0	100.0	87.1	59.4	22.9	12.9	5.2	65.3	155
	19	100.0	100.0	100.0	100.0	100.0	91.0	58.7	27.7	9.0	74.1	155
	22	100.0	100.0	100.0	100.0	100.0	100.0	81.9	53.5	16.1	80.9	155
TOTALS		100.0	100.0	100.0	99.8	96.1	85.7	64.4	42.3	16.8	76.3	1240

## RELATIVE HUMIDITY

STATION  
13769

OCEANA, VIRGINIA

YA	STATION NAME
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73-77

PERIOD

**SEP**  
**MONTH**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	98.7	96.7	90.0	79.3	22.0	84.4	150
	04	100.0	100.0	100.0	100.0	98.7	96.7	91.3	84.7	32.0	86.7	150
	07	100.0	100.0	100.0	100.0	99.3	96.0	92.0	79.3	34.0	86.8	150
	10	100.0	100.0	100.0	99.3	92.7	77.3	46.7	16.7	4.0	68.9	150
	13	100.0	100.0	100.0	96.0	81.3	50.7	28.0	12.7	4.7	62.7	150
	16	100.0	100.0	99.3	96.0	82.7	58.7	31.3	16.7	5.3	64.6	150
	19	100.0	100.0	100.0	100.0	98.7	92.7	74.0	40.0	6.0	76.6	150
	22	100.0	100.0	100.0	100.0	98.7	96.7	87.3	60.0	14.7	81.2	150
TOTALS		100.0	100.0	99.9	98.9	93.9	83.2	67.6	48.7	15.3	76.5	1200





## RELATIVE HUMIDITY

13769  
STATION

OCEANA, VIRGINIA

STATION

STATION NAME

STATION NAME

73-77

PERIOD

MONTH  
ADJN

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	100.0	99.3	94.0	62.7	68.0	44.7	19.3	76.4	150
	04	100.0	100.0	100.0	99.3	96.0	86.7	69.3	48.0	22.0	78.1	150
	07	100.0	100.0	100.0	99.3	77.3	87.3	71.3	54.7	31.3	80.0	150
	10	100.0	100.0	100.0	93.3	74.7	52.0	34.7	23.3	9.3	64.7	150
	13	100.0	100.0	92.7	73.3	49.3	32.0	22.7	14.7	7.3	55.4	150
	16	100.0	100.0	92.0	74.7	52.0	36.0	24.0	17.3	8.7	56.1	150
	19	100.0	100.0	100.0	93.3	81.3	67.3	45.3	29.3	13.3	68.6	150
	22	100.0	100.0	100.0	98.7	88.7	72.7	58.7	41.3	16.0	73.3	150
TOTALS		100.0	100.0	98.1	91.4	79.2	64.6	49.3	34.2	15.9	69.1	1200

## RELATIVE HUMIDITY

13769  
STATION

OCEANA, VIRGINIA

73-77

PERIOD

MONTH  
DEC

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	100.0	100.0	99.4	93.5	81.3	67.1	53.5	21.3	77.6	155
	04	100.0	100.0	100.0	99.4	98.1	87.1	71.0	53.5	29.7	79.8	155
	07	100.0	100.0	100.0	100.0	96.8	88.4	74.8	60.0	31.0	81.1	155
	10	100.0	100.0	100.0	99.4	85.8	70.3	51.0	31.0	15.5	71.4	155
	13	100.0	100.0	100.0	83.2	65.2	49.0	36.1	22.6	11.0	62.2	155
	16	100.0	100.0	98.7	85.2	68.4	51.0	36.8	27.1	9.0	63.3	155
	19	100.0	100.0	99.4	95.5	85.2	73.5	58.1	36.1	17.4	72.6	155
	22	100.0	100.0	100.0	98.1	91.0	80.6	67.7	45.2	20.6	76.4	155
TOTALS		100.0	100.0	99.8	95.0	85.5	72.7	57.8	41.1	19.4	73.1	1240



# RELATIVE HUMIDITY

5706 RELATIVE HUMIDITY JAN 68

0800

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13769 STATION NAME OCEANA, VIRGINIA PERIOD 73-77 MONTH ALL

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	100.0	98.6	93.5	81.5	64.7	49.8	33.1	13.5	69.0	1240
FEB		100.0	99.3	94.4	81.4	68.0	50.6	35.7	21.4	10.5	61.7	1128
MAR		100.0	99.6	95.7	86.2	73.7	60.7	47.3	31.5	13.5	66.6	1240
APR		100.0	99.7	94.2	83.7	68.9	49.0	30.9	14.6	2.2	59.8	1199
MAY		100.0	100.0	99.7	94.2	84.4	71.0	54.9	37.3	9.8	70.9	1240
JUN		100.0	100.0	99.8	98.3	91.0	79.5	62.5	44.1	15.1	74.8	1200
JUL		100.0	100.0	99.9	98.5	91.9	78.9	61.5	40.7	12.7	73.9	1240
AUG		100.0	100.0	100.0	99.8	96.1	85.7	64.4	42.3	16.8	76.3	1240
SEP		100.0	100.0	99.9	98.9	93.9	83.2	67.6	48.7	15.3	76.5	1200
OCT		100.0	99.9	99.3	96.1	87.3	75.0	60.1	41.4	17.2	73.6	1240
NOV		100.0	100.0	98.1	91.4	79.2	64.6	49.3	34.2	15.9	69.1	1200
DEC		100.0	100.0	99.8	95.0	85.5	72.7	57.8	41.1	19.4	73.1	1240
TOTALS		100.0	99.9	98.3	93.1	83.5	69.6	53.5	35.9	13.5	70.4	14607

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

JANUARY

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66	2.7	2.7			14.3	65.7				7	.6
57 TO 61	3.0			2.7	27.8	44.4	27.8			18	1.5
52 TO 56	2.8	2.8	6.6	5.0	28.7	43.2	18.9			37	3.0
47 TO 51	14.0	9.6	8.8	8.5	19.8	32.7	28.7	1.0	1.0	101	8.1
42 TO 46	22.3	14.3	12.0	14.0	7.4	12.5	30.2	4.7	2.8	106	8.5
37 TO 41	28.7	9.8	4.6	3.4	7.4	10.9	8.0	5.1	8.1	136	11.0
32 TO 36	34.7	3.4	5.1	2.3	4.0	11.5	9.8	10.9	16.6	175	14.1
27 TO 31	37.8	4.2	1.4	2.8	6.8	8.5	11.4	13.1	18.4	174	14.0
22 TO 26	21.3			7	5.6	2.8	16.8	14.0	14.2	176	14.2
17 TO 21	23.7			7.5	7.5	7.5	20.0	21.3	16.8	143	11.5
12 TO 16	34.8	4.3		1.7	10.2	10.2	22.0	13.6	22.5	80	6.5
7 TO 11					21.7	26.1	13.0		28.8	59	4.8
2 TO 6					100.0					23	1.9
-3 TO 1							50.0	50.0		1	.1
-8 TO -4										4	.3
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	21.7	5.8	4.5	4.0	10.0	14.4	16.9	9.4	12.9	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13769  
STATION NAME

OCEANA, VIRGINIA

JAN 1973-DEC 1977  
YEARS

FEBRUARY  
MONTH

ALL  
HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +										
117 TO 121										
112 TO 116										
107 TO 111										
102 TO 106										
97 TO 101										
92 TO 96										
87 TO 91										
82 TO 86										
77 TO 81				16.7	66.7			16.7	6	5
72 TO 76			33.3	44.4		22.2			9	8
67 TO 71		3.1	31.3	50.0		15.6			32	2.8
62 TO 66	3.1		3.1	33.8	41.5	18.5			65	5.8
57 TO 61	2.8	1.9	6.6	24.5	35.8	20.8	5.7	1.9	106	9.4
52 TO 56	2.9	1.9	16.3	23.1	25.0	18.3	4.8	2.9	104	9.2
47 TO 51	10.8	8.3	11.7	14.2	21.7	10.8	9.2	3.3	120	10.6
42 TO 46	16.3	11.6	8.7	12.2	10.3	14.5	7.6	9.9	172	15.2
37 TO 41	25.6	14.0	4.7	9.3	4.7	9.9	11.0	19.2	172	15.2
32 TO 36	35.8	10.6	2.6	6.6	8.6	8.6	9.3	15.2	151	13.4
27 TO 31	33.6	2.7		4.5	6.4	9.1	15.5	28.2	110	9.8
22 TO 26	41.7	1.7		3.3	10.0	6.7	15.0	21.7	60	5.3
17 TO 21	11.1					5.6	27.8	55.6	18	1.6
12 TO 16								100.0	3	.3
7 TO 11										
2 TO 6										
-3 TO 1										
-8 TO -4										
-13 TO -9										
-18 TO -14										
-23 TO -19										
-28 TO -24										
-33 TO -29										
-38 TO -34										
-43 TO -39										
-48 TO -44										
-53 TO -49										
-58 TO -54										
-59 & LWR										
TOTALS	18.7	6.6	4.3	5.3	13.9	17.1	8.8	12.4	1128	100.0



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13709  
STATION

UCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

MARCH

ALL  
HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81					9.5	57.1	42.9	4.8		7	.6
72 TO 76				4.0	16.0	57.1	28.6			21	1.7
67 TO 71	2.9	1.4	2.9	2.9	31.4	72.0	8.0			25	2.0
62 TO 66	3.6	.9	2.7	2.7	42.9	14.3		1.4		70	5.6
57 TO 61	12.9	2.9	8.6	12.9	22.5	39.6	19.8	2.7	5.4	111	9.0
52 TO 56	12.3	6.9	12.8	16.7	19.3	15.0	14.3	8.6	5.7	140	11.3
47 TO 51	18.6	13.6	15.0	5.9	10.3	11.8	10.8	7.9	10.3	203	16.4
42 TO 46	20.5	23.4	12.9	6.4	5.3	7.5	6.8	10.4	7.1	280	22.6
37 TO 41	35.6	9.1	6.1	3.0	6.1	3.3	5.8	11.1	11.1	171	13.8
32 TO 36	33.3	5.9		2.0	5.9	5.3	10.6	10.6	13.6	132	10.6
27 TO 31	23.1				7.7	3.9	9.8	17.6	19.6	51	4.1
22 TO 26	33.3					3.8	23.1	3.8	38.5	26	2.1
17 TO 21							66.7			3	.2
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	16.7	9.1	9.3	6.0	12.7	15.4	11.4	8.5	9.0	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13709  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

APRIL

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	10.7	3.6	50.0	50.0		67.9	10.7			2	.2
77 TO 81	8.9	4.4	2.2	13.3	17.8	31.1	20.0	2.2		28	2.3
72 TO 76			5.7	11.4	24.3	38.6	12.9	2.9	4.3	43	3.8
67 TO 71	2.9	1.4	3.6	6.5	27.3	38.4	15.9	2.2	1.4	70	5.8
62 TO 66	8.8	2.8	8.8	8.3	20.4	23.8	15.5	5.0	6.6	138	11.5
57 TO 61	16.6	8.0	14.1	9.2	8.6	12.9	14.1	5.5	11.0	181	15.1
52 TO 56	13.5	10.1	13.7	11.5	11.1	13.9	12.0	8.2	5.8	163	13.6
47 TO 51	22.6	6.7	10.3	9.7	9.7	8.2	9.7	10.3	12.8	208	17.3
42 TO 46	22.7	10.9	1.8		1.8	8.2	9.1	20.0	25.5	195	16.3
37 TO 41	20.5	4.5				9.1	13.6	20.5	31.8	110	9.2
32 TO 36	6.7					13.3	6.7	33.3	40.0	44	3.7
27 TO 31										15	1.3
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	13.4	5.9	8.4	6.3	13.2	19.8	12.9	8.1	10.0	1199	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

STATION 13709 OCEANA, VIRGINIA JAN 1973-DEC 1977 MAY ALL  
STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	16.7	2.6		8.3	16.7	41.7	100.0	8.3		1	1.1
82 TO 86				5.3	15.8	39.5	21.1	10.5	5.3	12	1.0
77 TO 81	4.4	1.1	5.5	15.4	25.3	27.5	11.0	7.7	2.2	38	3.1
72 TO 76	6.5	4.0	22.6	10.5	18.5	19.4	10.5	5.6	2.4	91	7.3
67 TO 71	6.7	7.1	13.4	16.0	19.8	23.1	7.1	3.0	3.7	124	10.0
62 TO 66	11.2	15.0	15.0	14.0	12.8	12.8	5.9	4.0	7.2	268	21.6
57 TO 61	18.5	12.0	17.6	11.2	12.0	6.4	3.0	6.9	12.4	321	25.9
52 TO 56	21.6	11.8	10.8	5.9	8.8	7.8	6.9	2.0	24.5	233	18.8
47 TO 51	2.2		2.2	4.4	20.0	17.8	11.1	40.0	100.0	102	8.2
42 TO 46										45	3.6
37 TO 41										5	.4
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	10.8	9.2	13.7	12.4	15.6	16.5	7.5	5.1	9.4	1240	100.0



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

13769 OCEANA, VIRGINIA

STATION

JAN 1973-DEC 1977

STATION NAME

WIND DIRECTION

JUNE

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96					30.0	40.0	20.0		10.0	10	1.6
87 TO 91		2.7	5.4	8.1	5.4	56.6	18.9	2.7		37	3.1
82 TO 86	7.4	3.0	6.7	14.1	19.3	26.7	17.0	5.2	.7	135	11.3
77 TO 81	6.6	9.6	12.2	16.3	24.0	21.9	8.2	3.1	2.0	196	16.3
72 TO 76	6.3	9.5	13.3	13.7	17.2	24.9	6.7	2.1	6.3	285	23.6
67 TO 71	11.7	7.4	14.8	8.3	18.2	17.2	5.5	5.2	11.7	325	27.1
62 TO 66	10.5	17.3	16.0	6.2	5.6	8.6	4.3	7.4	24.1	162	13.5
57 TO 61	4.4	46.7	2.2		2.2	6.7	8.9	8.9	20.0	45	3.6
52 TO 56	20.0	20.0					20.0		40.0	5	.4
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	8.3	9.8	12.3	10.6	16.3	20.7	8.1	4.4	9.3	1200	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

JULY

MONTH

ALL

HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101						100.0				1	.1
92 TO 96	5.0	5.0			15.0	35.0	20.0	20.0		20	1.6
87 TO 91	5.6	1.4	11.1	9.7	16.7	29.2	18.1	4.2	4.2	72	5.8
82 TO 86	5.5	3.5	15.1	13.1	20.1	25.6	11.1	4.5	1.5	194	16.0
77 TO 81	7.5	13.1	14.4	13.1	16.6	20.6	8.4	3.1	3.1	320	25.8
72 TO 76	4.3	14.0	7.2	10.3	16.0	27.5	6.6	3.2	10.9	349	28.1
67 TO 71	4.4	8.7	2.6	4.8	16.6	22.7	8.3	2.2	29.7	229	18.5
62 TO 66	6.7	4.4	2.2			19.3	4.4	2.2	66.7	45	3.6
57 TO 61						20.0	20.0		60.0	5	.4
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	5.5	9.8	9.4	9.8	16.3	24.3	9.0	3.5	12.5	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

AUGUST

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	3.1	3.1	3.1	3.1	3.1	100.0	21.9	3.1		1	1.1
87 TO 91	3.3	1.7	16.7	6.7	23.3	36.7	10.0		1.7	32	2.6
82 TO 86	5.3	3.2	19.3	15.0	19.8	21.9	9.6	2.7	2.1	60	4.8
77 TO 81	5.3	5.9	16.4	14.1	19.1	25.3	8.9	1.0	3.9	187	15.1
72 TO 76	4.5	10.7	8.4	8.4	19.7	21.2	9.9	2.3	14.8	304	24.5
67 TO 71	12.8	15.6	7.4	5.1	8.6	15.2	5.1	3.5	26.8	345	27.8
62 TO 66	8.3	6.3	8.3		6.3	14.6	8.3	2.1	45.8	257	20.7
57 TO 61							50.0	16.7	33.3	48	3.9
52 TO 56										6	.5
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	6.6	8.5	12.0	9.7	16.4	22.6	9.0	2.3	13.0	1240	100.0



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

SEPTEMBER

MONTH

ALL

HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96						100.0				1	1
87 TO 91			10.0		15.0	60.0	15.0			20	1.7
82 TO 86	7.4	2.5	8.6	21.0	8.6	35.8	16.0			81	6.8
77 TO 81	5.0	6.1	13.8	16.6	20.4	21.5	10.5	2.2	3.9	181	15.1
72 TO 76	6.6	9.8	20.8	8.5	19.6	16.1	7.3	3.5	7.9	317	26.4
67 TO 71	15.6	17.0	18.1	7.9	11.0	11.0	4.8	4.8	9.6	353	29.4
62 TO 66	21.4	16.1	6.0	2.4	4.2	8.9	4.2	4.2	32.7	168	14.0
57 TO 61	22.8	10.5		3.5	5.3	5.3	12.3	1.8	38.6	57	4.8
52 TO 56	18.2	4.5				9.1	27.3		40.9	22	1.8
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	12.0	11.5	14.5	9.0	13.2	15.9	7.9	3.3	12.7	1200	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13769

STATION

OCEANA, VIRGINIA

WIND DIRECTION

JAN 1971-DEC 1977

YEARS

OCTOBER

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91	50.0					50.0				2	.2
82 TO 86	7.7				15.4	30.8	46.2			13	1.0
77 TO 81			9.3	14.3	14.3	47.6	4.8		9.5	21	1.7
72 TO 76	9.9	5.6	15.5	9.9	14.1	23.9	5.6	5.6	9.9	71	5.7
67 TO 71	12.1	15.9	19.3	11.1	12.1	15.9	7.2	1.9	4.3	207	16.7
62 TO 66	18.8	18.8	13.7	7.0	7.7	10.2	6.4	6.1	11.2	313	25.2
57 TO 61	19.4	13.2	7.9	2.6	9.3	14.5	9.3	7.0	16.7	227	18.3
52 TO 56	23.8	12.2	1.8	.6	6.1	14.0	9.8	6.1	25.6	164	13.2
47 TO 51	22.5	2.5	1.7	.8	.8	19.2	13.3	11.7	27.5	120	9.7
42 TO 46	35.5	4.8	1.6	1.6	1.6	19.4	11.3	8.1	16.1	62	5.0
37 TO 41	28.6	7.1				35.7	7.1	3.6	17.9	26	2.3
32 TO 36						63.6	16.2		18.2	11	.9
27 TO 31						100.0				1	.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	18.8	12.4	9.7	5.2	7.8	16.6	8.9	5.9	14.8	1240	100.0

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13769  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

NOVEMBER

MONTH

ALL

HOURS (L.S.T.)

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81			6.7		20.0	46.7	20.0	6.7		15	1.3
72 TO 76	9.1	6.1	6.1	9.1	18.2	36.4	15.2			33	2.8
67 TO 71	3.8		12.8	7.7	33.3	29.5	10.3		2.6	78	6.5
62 TO 66	3.3	6.0	11.3	10.6	17.9	30.5	10.6	2.6	7.3	151	12.6
57 TO 61	14.8	8.4	9.7	4.3	15.5	25.2	12.9	2.6	6.5	155	12.9
52 TO 56	13.6	12.1	7.9	6.4	8.6	21.4	14.3	6.4	9.3	140	11.7
47 TO 51	25.3	9.7	6.0	2.3	4.1	16.1	12.9	14.7	8.8	217	18.1
42 TO 46	24.3	5.1	3.4	6.6	7.3	14.7	15.3	12.4	16.9	177	14.8
37 TO 41	21.1	2.8	1.8	9.9	5.5	12.8	18.3	15.6	21.1	109	9.1
32 TO 36	8.2			2.4	9.4	21.2	17.6	16.5	24.7	85	7.1
27 TO 31	10.7					32.1	25.0	7.1	25.0	28	2.3
22 TO 26	16.7					41.7	25.0		16.7	14	1.0
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	15.5	6.2	6.4	4.2	11.2	22.0	14.3	8.8	11.5	1200	100.0



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

13709

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

DECEMBER

ALL

HOURLY A.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76											
67 TO 71											
62 TO 66											
57 TO 61	1.1	2.2	3.2	4.2	12.5	50.0	50.0			2	.2
52 TO 56	4.8	8.9	8.9	16.1	43.8	68.8	18.8			10	1.3
47 TO 51	13.0	12.1	13.0	6.3	29.0	39.6	12.5	3.2	1.1	48	3.9
42 TO 46	21.4	15.2	10.5	1.4	17.1	28.0	13.0	3.4	6.8	93	7.5
37 TO 41	31.4	5.0	3.6	2.1	9.7	15.3	13.5	10.6	6.3	146	11.8
32 TO 36	18.5	3.3	2.6	2.0	6.7	14.8	10.5	9.5	10.0	207	16.7
27 TO 31	19.1	3.1	.8		5.0	13.6	16.4	12.1	10.7	210	16.9
22 TO 26	25.0	4.2			11.3	9.9	16.6	18.5	17.2	140	11.3
17 TO 21	4.5				6.1	11.5	13.7	23.7	22.1	151	12.2
12 TO 16					4.2	12.5	18.1	20.8	15.3	131	10.6
7 TO 11					9.1	9.1	18.2	4.5	54.5	72	5.8
2 TO 6						50.0			50.0	22	1.8
-3 TO 1										2	.2
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LVR											
TOTALS	15.8	7.3	6.0	4.4	11.8	17.7	14.3	11.5	11.2	1240	100.0

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS. WIND DIRECTION

13799  
STATION

OCEANA, VIRGINIA

STATION NAME

JAN 1973-DEC 1977

YEARS

ALL  
MONTH

ALL  
HOURS (L.S.T.)

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	3.1	1.6	1.6	1.6	10.9	100.0	21.9	7.8	1.6	2	.0
87 TO 91	4.4	1.5	11.2	7.8	16.1	50.0	14.6	2.4	2.0	64	.4
82 TO 86	6.0	3.1	11.9	14.0	17.2	40.0	14.0	3.6	1.5	205	1.4
77 TO 81	5.8	7.1	12.8	14.2	19.6	28.9	9.8	2.8	3.2	680	4.7
72 TO 76	5.4	9.5	12.4	10.0	18.3	24.8	8.2	3.0	8.9	1200	8.2
67 TO 71	9.4	10.0	11.6	5.1	17.0	21.2	7.7	3.2	11.7	1637	11.2
62 TO 66	11.1	11.1	10.2	7.5	14.0	18.8	9.1	4.2	14.1	1991	13.6
57 TO 61	13.3	8.8	8.0	7.6	15.0	17.5	12.9	5.5	10.7	1650	11.3
52 TO 56	12.0	8.7	8.8	9.7	12.1	16.9	13.9	9.8	11.7	1931	9.1
47 TO 51	18.0	9.3	9.8	7.3	8.5	13.6	11.8	10.8	11.7	1200	8.2
42 TO 46	21.9	13.0	8.2	3.4	6.7	11.2	10.6	10.2	14.7	1320	9.0
37 TO 41	28.2	8.4	3.9	1.9	5.5	10.3	12.4	12.0	17.5	1082	7.4
32 TO 36	26.3	4.7	2.7	2.3	7.8	11.4	12.7	14.5	17.7	799	5.5
27 TO 31	28.5	3.0	.7	.2	9.2	8.4	14.8	16.2	23.0	640	4.4
22 TO 26	27.8	1.3	.4		4.8	11.5	16.7	18.1	19.4	439	3.0
17 TO 21	17.2				3.0	8.1	18.2	14.1	39.4	227	1.6
12 TO 16	28.6	3.6				21.4	21.4	10.7	14.3	99	.7
7 TO 11						100.0				26	.2
2 TO 6							50.0	50.0		1	.0
-3 TO 1										4	.0
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	13.6	8.5	9.3	7.6	13.2	18.6	11.1	6.6	11.6	14907	100.0





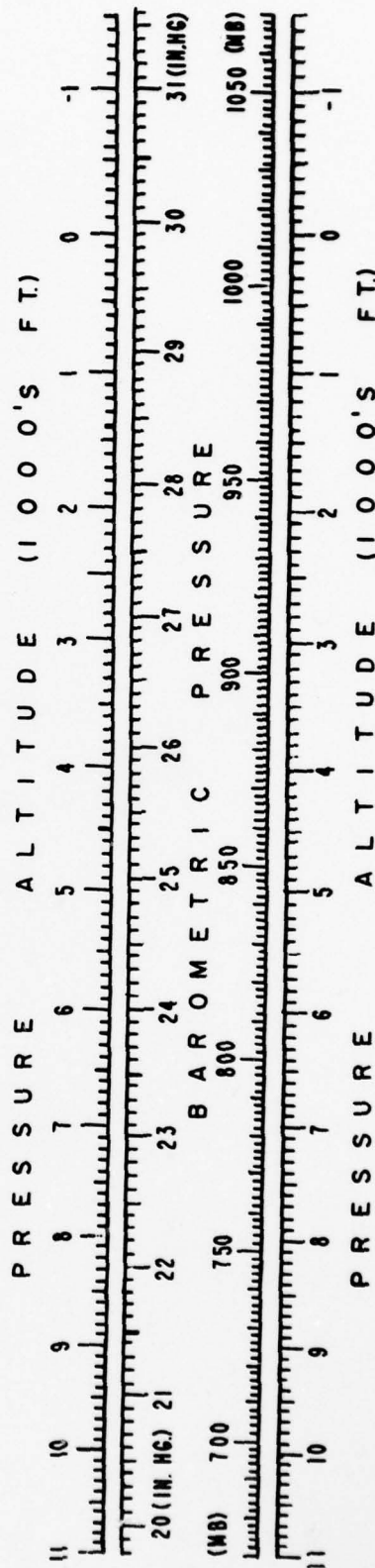
## PART F

## PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

13769 OCEANA, VIRGINIA

73-77

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	30.070 MEAN .238 S.D. 155 TOTAL OBS	30.037 MEAN .257 S.D. 141 TOTAL OBS	30.021 MEAN .228 S.D. 155 TOTAL OBS	30.018 MEAN .219 S.D. 150 TOTAL OBS	29.967 MEAN .152 S.D. 155 TOTAL OBS	29.980 MEAN .153 S.D. 150 TOTAL OBS	29.995 MEAN .127 S.D. 155 TOTAL OBS	30.049 MEAN .105 S.D. 155 TOTAL OBS	30.034 MEAN .138 S.D. 150 TOTAL OBS	30.074 MEAN .193 S.D. 155 TOTAL OBS	30.049 MEAN .206 S.D. 150 TOTAL OBS	30.049 MEAN .272 S.D. 155 TOTAL OBS	30.031 MEAN .200 S.D. 1826 TOTAL OBS
04	30.071 MEAN .233 S.D. 155 TOTAL OBS	30.034 MEAN .240 S.D. 141 TOTAL OBS	30.009 MEAN .226 S.D. 155 TOTAL OBS	30.007 MEAN .232 S.D. 150 TOTAL OBS	29.961 MEAN .153 S.D. 155 TOTAL OBS	29.971 MEAN .154 S.D. 150 TOTAL OBS	29.986 MEAN .130 S.D. 155 TOTAL OBS	30.040 MEAN .106 S.D. 155 TOTAL OBS	30.024 MEAN .138 S.D. 150 TOTAL OBS	30.064 MEAN .196 S.D. 155 TOTAL OBS	30.070 MEAN .205 S.D. 150 TOTAL OBS	30.047 MEAN .278 S.D. 155 TOTAL OBS	30.024 MEAN .200 S.D. 1826 TOTAL OBS
07	30.094 MEAN .235 S.D. 155 TOTAL OBS	30.060 MEAN .237 S.D. 141 TOTAL OBS	30.040 MEAN .235 S.D. 155 TOTAL OBS	30.041 MEAN .244 S.D. 150 TOTAL OBS	29.993 MEAN .155 S.D. 155 TOTAL OBS	29.998 MEAN .155 S.D. 150 TOTAL OBS	30.014 MEAN .130 S.D. 155 TOTAL OBS	30.067 MEAN .107 S.D. 155 TOTAL OBS	30.052 MEAN .140 S.D. 150 TOTAL OBS	30.090 MEAN .202 S.D. 155 TOTAL OBS	30.097 MEAN .207 S.D. 150 TOTAL OBS	30.065 MEAN .281 S.D. 155 TOTAL OBS	30.051 MEAN .203 S.D. 1826 TOTAL OBS
10	30.123 MEAN .243 S.D. 155 TOTAL OBS	30.081 MEAN .241 S.D. 141 TOTAL OBS	30.049 MEAN .255 S.D. 155 TOTAL OBS	30.046 MEAN .253 S.D. 150 TOTAL OBS	29.999 MEAN .159 S.D. 155 TOTAL OBS	30.005 MEAN .158 S.D. 150 TOTAL OBS	30.024 MEAN .130 S.D. 155 TOTAL OBS	30.078 MEAN .110 S.D. 155 TOTAL OBS	30.066 MEAN .146 S.D. 150 TOTAL OBS	30.108 MEAN .207 S.D. 155 TOTAL OBS	30.116 MEAN .210 S.D. 150 TOTAL OBS	30.095 MEAN .284 S.D. 155 TOTAL OBS	30.066 MEAN .210 S.D. 1826 TOTAL OBS
13	30.061 MEAN .243 S.D. 155 TOTAL OBS	30.036 MEAN .245 S.D. 141 TOTAL OBS	30.006 MEAN .264 S.D. 155 TOTAL OBS	30.010 MEAN .246 S.D. 150 TOTAL OBS	29.975 MEAN .161 S.D. 155 TOTAL OBS	29.988 MEAN .161 S.D. 150 TOTAL OBS	30.007 MEAN .131 S.D. 155 TOTAL OBS	30.057 MEAN .115 S.D. 155 TOTAL OBS	30.034 MEAN .150 S.D. 150 TOTAL OBS	30.067 MEAN .210 S.D. 155 TOTAL OBS	30.061 MEAN .211 S.D. 150 TOTAL OBS	30.038 MEAN .280 S.D. 155 TOTAL OBS	30.028 MEAN .210 S.D. 1826 TOTAL OBS
16	30.049 MEAN .245 S.D. 155 TOTAL OBS	30.003 MEAN .246 S.D. 141 TOTAL OBS	29.969 MEAN .259 S.D. 155 TOTAL OBS	29.978 MEAN .233 S.D. 150 TOTAL OBS	29.943 MEAN .161 S.D. 155 TOTAL OBS	29.963 MEAN .160 S.D. 150 TOTAL OBS	29.979 MEAN .134 S.D. 155 TOTAL OBS	30.029 MEAN .115 S.D. 155 TOTAL OBS	30.005 MEAN .151 S.D. 150 TOTAL OBS	30.048 MEAN .207 S.D. 155 TOTAL OBS	30.043 MEAN .210 S.D. 150 TOTAL OBS	30.028 MEAN .271 S.D. 155 TOTAL OBS	30.003 MEAN .208 S.D. 1826 TOTAL OBS
19	30.075 MEAN .243 S.D. 155 TOTAL OBS	30.026 MEAN .250 S.D. 141 TOTAL OBS	29.992 MEAN .249 S.D. 155 TOTAL OBS	29.996 MEAN .219 S.D. 150 TOTAL OBS	29.953 MEAN .150 S.D. 155 TOTAL OBS	29.967 MEAN .155 S.D. 150 TOTAL OBS	29.981 MEAN .131 S.D. 155 TOTAL OBS	30.034 MEAN .108 S.D. 155 TOTAL OBS	30.015 MEAN .148 S.D. 150 TOTAL OBS	30.070 MEAN .199 S.D. 155 TOTAL OBS	30.067 MEAN .206 S.D. 150 TOTAL OBS	30.053 MEAN .269 S.D. 155 TOTAL OBS	30.019 MEAN .204 S.D. 1826 TOTAL OBS
22	30.084 MEAN .240 S.D. 155 TOTAL OBS	30.040 MEAN .251 S.D. 141 TOTAL OBS	30.020 MEAN .233 S.D. 155 TOTAL OBS	30.026 MEAN .216 S.D. 150 TOTAL OBS	29.976 MEAN .147 S.D. 155 TOTAL OBS	29.991 MEAN .153 S.D. 150 TOTAL OBS	30.005 MEAN .129 S.D. 155 TOTAL OBS	30.059 MEAN .102 S.D. 155 TOTAL OBS	30.038 MEAN .143 S.D. 150 TOTAL OBS	30.087 MEAN .196 S.D. 155 TOTAL OBS	30.081 MEAN .204 S.D. 150 TOTAL OBS	30.058 MEAN .272 S.D. 155 TOTAL OBS	30.039 MEAN .200 S.D. 1826 TOTAL OBS
ALL HOURS	30.079 MEAN .240 S.D. 1240 TOTAL OBS	30.039 MEAN .246 S.D. 1128 TOTAL OBS	30.013 MEAN .244 S.D. 1240 TOTAL OBS	30.015 MEAN .233 S.D. 1200 TOTAL OBS	29.971 MEAN .155 S.D. 1240 TOTAL OBS	29.983 MEAN .156 S.D. 1200 TOTAL OBS	29.999 MEAN .131 S.D. 1240 TOTAL OBS	30.052 MEAN .109 S.D. 1240 TOTAL OBS	30.033 MEAN .145 S.D. 1200 TOTAL OBS	30.076 MEAN .202 S.D. 1240 TOTAL OBS	30.076 MEAN .208 S.D. 1200 TOTAL OBS	30.054 MEAN .276 S.D. 1240 TOTAL OBS	30.033 MEAN .205 S.D. 14608 TOTAL OBS

# MEANS AND STANDARD DEVIATIONS

5707 MEANS AND STANDARD DEVIATIONS JAN 68

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

73-77

OCEANA, VIRGINIA

13769

STATION

STATION NAME

YEARS

HRS.(LST.)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
01	1019.2 8.037 155	1018.0 8.701 141	1017.5 7.723 155	1017.4 7.429 150	1015.7 5.158 155	1016.1 5.161 150	1016.6 4.275 155	1018.4 3.580 155	1018.0 4.694 150	1019.3 6.541 155	1019.3 6.943 150	1018.4 9.176 155	1017.8 6.756 1826
04	1019.2 7.905 155	1017.9 8.117 141	1017.1 7.661 155	1017.0 7.844 150	1015.5 5.152 155	1015.8 5.200 150	1016.3 4.373 155	1018.1 3.612 155	1017.6 4.673 150	1019.0 6.628 155	1019.2 6.948 150	1018.4 9.401 155	1017.6 6.771 1826
07	1020.0 7.957 155	1018.8 8.022 141	1018.1 7.999 155	1018.2 8.224 150	1016.5 5.236 155	1016.7 5.239 150	1017.3 4.402 155	1019.1 3.636 155	1018.5 4.724 150	1019.8 6.842 155	1020.0 6.997 150	1019.0 9.508 155	1018.5 6.873 1826
10	1021.0 8.191 155	1019.5 8.140 141	1018.5 8.616 155	1018.4 8.559 150	1016.7 5.393 155	1016.9 5.352 150	1017.6 4.410 155	1019.4 3.727 155	1019.0 4.905 150	1020.5 7.000 155	1020.7 7.105 150	1020.0 9.608 155	1019.0 7.106 1826
13	1018.9 8.220 155	1018.0 8.284 141	1017.0 8.939 155	1017.1 8.347 150	1015.9 5.434 155	1016.4 5.435 150	1017.0 4.431 155	1018.7 3.910 155	1017.9 5.081 150	1019.9 7.073 155	1018.9 7.165 150	1018.0 9.563 155	1017.7 7.106 1826
16	1018.4 8.244 155	1016.9 8.301 141	1015.7 8.757 155	1016.0 7.889 150	1014.9 5.449 155	1015.5 5.404 150	1016.0 4.532 155	1017.8 3.880 155	1016.9 5.109 150	1018.4 7.014 155	1018.3 7.132 150	1017.7 9.197 155	1016.9 7.033 1826
19	1019.3 8.219 155	1017.6 8.449 141	1016.5 8.406 155	1016.6 7.418 150	1015.2 5.092 155	1015.7 5.246 150	1016.1 4.456 155	1017.9 3.632 155	1017.3 5.004 150	1019.2 6.723 155	1019.1 7.003 150	1018.6 9.101 155	1017.4 6.898 1826
22	1019.7 8.126 155	1018.2 8.470 141	1017.4 7.881 155	1017.7 7.209 150	1016.0 4.985 155	1016.5 5.157 150	1016.9 4.348 155	1018.8 3.447 155	1018.1 4.844 150	1019.7 6.609 155	1019.5 6.911 150	1018.7 9.209 155	1018.1 6.748 1826
ALL HOURS	1019.5 8.123 1240	1018.1 8.319 1128	1017.2 8.277 1240	1017.3 7.889 1200	1015.8 5.258 1240	1016.2 5.281 1200	1016.7 4.422 1240	1018.5 3.710 1240	1017.9 4.906 1200	1019.4 6.812 1240	1019.4 7.040 1200	1018.6 9.343 1240	1017.9 6.938 14608